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                                                                                                              April 15, 2004, 10:27:11; Search time 21 Seconds (without alignments) 27.483 Million cell updates/sec
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Copyright (c) 1993 - 2004 Compugen Ltd.
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A,Gene: celC A,Map position: linear chromosome

protein F10G7.2 [i 1,3-beta-glucan sy probable 1,3-beta-ferritin heavy cha ferritin H chain - hypothetical protein adenine phosphorib hypothetical protein ferritin heavy cha ferritin heavy cha ribosomal protein ferritin chain L ferritin light cha ferritin light cha ferritin light cha ferritin light cha	annewis  104  114  195  B.L.; Walsh, C.T.  Sphorus bond cleavage. Cloning and sequencing of cleavage. Cloning and sequencing of clear bond cleavage. Cloning and sequencing of clear	tumefaciens (strain C58, Dupont) -Jan-2002 #text_change 18-Nov-2002  .Jan-2002 #text_change 18-Nov-2002  .nks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, L. ler, D.; Kutyavin, T.; Levy, R.; Li, M.; McClell Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm, c. Engineer Agrobacterium tumefaciens C58.  PMID:11743193  44120.1; PID:g17741690; GSPDB:GN00187
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& & & & & & & & & & & & & & & & & & &	אין אמרמטטמאטאיי מייש פאטריט אין אין אין	RESULT 2 AB2963 endoglucanase [imported] - Agro- C;Species: Agrobacterium tumefa C;Species: Agrobacterium tumefa C;Date: 11-Jan-2002 #sequence_r C;Accession: AB2963 R;Wood, D.W.; Setubal, J.C.; Ka- erage, G.; Gillet, W.; Grant, C Karp, P.; Romero, P.; Grang, Science 294, 2317-2323, 2001 A;Authors: Yoo, H.; Tao, Y.; Bi, ster, E.W. A;Title: The Genome of the Natu A;Reference number: AB2577; MUI A;Accession: AB2963 A;Status: preliminary A;Residues: 1-351 «KUR» A;Residues: 1-351 «KUR» A;Residues: 1-351 «KUR» A;Coss-references: GB:AE008689 A;Experimental source: strain C C;Genetics: A;Genetics:

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Proc. Natl. Acad. Sci. U.S.A. 96, 517-522, 1999

A; Title: Moel, a conserved protein in Schizosaccharomyces pombe, interacts with a Ras efficace number: 22574; MUID:99110922; PMID:982665

A; Accession: T43555

A; Status: preliminary; translated from GB/EMBL/DDBJ

A; Reaidus: 1-S6 < CHE>
A; Reaidus: 1-S6 < CHE>
A; Reaidus: 1-S6 < CHE>
A; Residues: 1-S6 < CHE>
A; Coss-references: EMBL.AP038568; MID:94176720; PIDN:AAD08893.1; PID:94176721

R; Purnelle, B.; Goffeau, A; Wood, V.; Rajandream, M.A.; Barrell, B.G.
A; Accession: T38999

A; Status: translated from GB/EMBL/DDBJ

A; Accession: T38999

A; Status: translated from GB/EMBL/DDBJ

A; Residues: 1-366, 'Z', 368-567 < PUR>
A; Cross-references: EMBL.AL034583; PIDN:CAA22586.1; GSPDB:GN00066; SPDB:SPAC637.07

A; Experimental source: strain 972h-; cosmid c637

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A; Genetics:
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C,Function: 1
A,Description: a component of the Rasl pathway necessary for proper spindle formation in
A,Note: Moel and Scdl interact directly in vitro; it is hypothesized that Scdl is essent
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Cyspecies: Homo sapiens (man)
Cyspecies: Achar-1993 #sequence_revision 18-Nov-1994 #text_change 15-Sep-2003
CyAccession: A4526
RyBriesewitz, R.; Epstein, M.R.; Marcantonio, E.E.
RyBriesewitz, R.; Epstein, M.R.; Marcantonio, E.E.
A; Bloi. Chem. 268, 29892-2986, 1993
A; Title: Expression of native and truncated forms of the human integrin alpha 1 subunit.
A; Reference number: A45226, MUID:93155124; PMID:8428973
A; Accession: A45226
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A; Anolecule type: mRNA
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A;Experimental source: hepatoblastoma cell line HepG2
A;Experimental source: hepatoblastoma cell line HepG2
A;Note: sequence extracted from NCBI backbone (NCBIP:124326)
A;Note: sequence extracted from NCBI backbone (NCBIP:124326)
A;1042-317/Domain: von Willebrand factor type A repeat homology <VWAl>
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H3555
Ras pathway interacting protein Moel - fission yeast (Schizosaccharomyces pombe)
NyAlternate names: elongation initiation factor subunit [misidentification]; Scd1 bindin G;Species: Schizosascharomyces pombe
C;Species: Schizosaccharomyces pombe
C;Date: 21-Jan-2000 #sequence_revision 21-Jan-2000 #text_change 17-Mar-2000
C;Accession: T43555; T38999
R;Chen, C.R.; Li, Y.C.; Chen, J.; Hou, M.C.; Papadaki, P.; Chang, E.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                      hypothetical protein AGR_L_3023GL [imported] - Agrobacterium tunnefaciens (strain C58, C6 C; Species: Agrobacterium tunnefaciens (strain C58, C6 C; Species: Agrobacterium tunnefaciens (strain C58, C6 C; Species: 22-0ct-2001 #sequence_revision 22-0ct-2001 #text_change 18-Nov-2002 C; Accession: C98320 R; Godner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, B.; Goldman, A; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.; A; Liu, E.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.; A; Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium tunners and A; Reference number: A97359; MUID:21608551; PMID:11743194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ·
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C;Species: Agrobacterium tumefaciens
C;Species: Agrobacterium tumefaciens
C;Date: 19-Jul-1996 #sequence_revision 19-Jul-1996 #text_change 08-Oct-1999
C;Accession: 139712
R;Matthysse, A.G.; White, S.; Lightfoot, R.
J. Bacteriol. 177, 1069-1075, 1995
A;Title: Genes required for cellulose synthesis in Agrobacterium tumefaciens.
A;Reference number: 139709; MUID:95164506; PMID:7860585
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A;Cross-references: GB:L38609; NID:g710486; PIDN:AAC41433.1; PID:g710490
C;Genetics:
A;Gene: celC
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             , Score 31; DB 2; Length 351;
, Pred. No. 58;
0; Mismatches 0; Indels
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A;Molecule type: DNA
                  Query Match

100.0%; Score 31;

Best Local Similarity 100.0%; Pred. No. Matches 6; Conservative 0; Mismatch
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A;Map position: linear chromosome
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Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                                                                                                                                                                               162
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Best Local Similarity
Matches 6; Conserv
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A,Status: preliminary
A,Molecule type: DNA
A,Residues: 1-351 <KUR>
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A; NEBEREINE: NUMBEREINE: SOURCES INTERCENTED INTERCED IN
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C, Species: Pseudomonas aeruginosa
C, Species: Pseudomonas aeruginosa
C, Species: Pseudomonas aeruginosa
C, Species: Description (S, Species)
C, Species: B3462
R, Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M.J.; Br Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Coulter, S.N.; Polger, K.R.; Kas, A.; Larbig, K.; Lim, J. Lory, S.; Olson, M.V.
Nature 406, 959-964, 2000
A, Fritle: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic pathc A; Accession: B33462
A; Accession: B33462
                    secretion protein XcpP PA3104 [imported] - Pseudomonas aeruginosa
C;Species: Pseudomonas aeruginosa
C;Species: Pseudomonas aeruginosa
C;Date: 13-dan-1995 #sequence_revision 13-Jan-1995 #text_change 31-Dec-2000
C;Accession: 639652; H83288
R;Akrim, M.; Bally, M.; Ball, G.; Tommassen, J.; Teerink, H.; Filloux, A.; Lazdunski, A.
Mol. Microbiol. 10, 431-443, 1993
A;Title: Xcp-mediated protein secretion in Pseudomonas aeruginosa: identification of twc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A, Cross-references: GB: AE004734; GB: AE004091; NID: 99949204; PIDN: AAG06492.1; GSPDB: GN001
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Modecule type: DNA
A;Readues: 1.-245 <2HD>
A;Cross-references: GB:AE004576; GB:AE004091; NID:g9947415; PIDN:AAG04859.1; GSPDB:GN001,
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Pred. No. 1.7e+02;
1; Mismatches 0; Indels
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Pred. No. 1.8e+02;
1; Mismatches 0; Indels
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Local Similarity 83.3%;
les 5; Conservative
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Best Local Similarity
Matches 5; Conserv
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A,Molecule type: DNA
A,Residues: 1-235 <STO>
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R;Smith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.; Rimith, D.R.; Doucette-Stamm, L.A.; Deloughery, C.; Lee, H.; Dubois, J.; Aldredge, T.; Oju, D.; Spadafora, R.; Vicaire, R.; Wang, Y.; Wierzbowski, J.; Gibson, R.; Jiwani, N. ki, S.; Church, G.M.; Daniels, C.J.; Mao, J.; Rice, P.; Noelling, J.; Reeve, J.N. J. Bacteriol. 179, 7135-7155, 1997
A; Title: Complete genome sequence of Methanobacterium thermoautotrophicum Delta H: funct A; Reference number: A69000; MUID:98037514; PMID:9371463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A,Molecule type: DNA
A,Residues: 1-134 <MTH>
A,Cross-references: GB:AE000827; GB:AE000666; NID:g2621489; PIDN:AABB4936.1; PID:g262149
A;Experimental source: strain Delta H
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A;Residues: 1-269 <SCH>
A;Cross-references: EMBL:AF083072; NID:g3599393; PID:g3599404; PIDN:AAC62709.1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               phytochrome - Scotch pine
C.Species: Pinus sylvestris (Scotch pine)
C.Date: 16-Jul-1999 #sequence_revision 16-Jul-1999 #text_change 20-Jun-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Species: Methanobacterium thermoautotrophicum
.Date: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 22-Oct-1999
                                                                                                                                                                                              Gaps
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A;Molecule type: mRNA
A;Molecule type: mRNA
A;Residues: 1-1131 «MIE>
A;Coss-references: EMBL:X96738, NID:g1237083
A;Experimental source: isolate PsA 5.1
C;Superfamily: phytochrome; phytochrome homology
C;Keywords: chromoprotein; phytochromeopoursecptor; phytochromobilin
F;75-887/Domain: phytochromeopoursecptor; phytochromobilin
F;75-887/Domain: phytochromeopoursecptor; phytochromobilin (Cys) (covalent) #status predicted
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                                                                                                                                                                                              0; Indels
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83.3%; Pred. No. 2.5e+02;
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Pred. No. 75;
1; Mismatches
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R;Wiegmann-Eirund, C.M.; Kolukisaoglu, H.U.
submitted to the EMBL Data Library, March 1996
A;Reference number: Z16826
A;Accession: T09701
A;Status: preliminary; translated from GB/EMBL/
                                                                                                             96.8%;
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Best Local Similarity 83.3%
6, Conservative
                                                                                                         Query Match
Best Local Similarity 83.3
Matches 5; Conservative
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A;Start codon: TTG
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Genetics:

RESULT 10

à g conserved hypothetical protein yviA - Bacillus subtilis C, Species: Bacillus subtilis

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Subtrilis YviA (DegV) protein homolog lin2658 [imported] - Listeria innocua (strain Cl C) Species: Listeria innocua (strain Cl C) Species: Listeria innocua (strain Cl C) Species: Listeria innocua (strain Cl C) Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change 01-Mar-2002 (Accession - AD1764 and AD1764 b. Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloecker.; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurget, O.; Entian, K.D.; Fsihi, H. Science 294, 849-852, 2001 A.; Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; Maitournam, A.; Ma A, A, A, A, Cescion Comparative genomics of Listeria species. A, Vazquez-Boland, J.A.; Voss, H.; Wehland, A, A, Accession, AD1764 AB1077; MUID:21537279; PMID:11679669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Title: Comparative sequence analyses of the cognate structural protein VP6 genes of A;Reference number: A48561; MUID:93033709; PMID:1329371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A,Status: preliminary
A;Molecule type: DNA
A;Residues: 1-283 «GLA>
A;Cossidues: 1-283 «GLA>
A;Cross-references: GB:AL592022; PIDN:CAC97884.1; PID:gl6415194; GSPDB:GN00178
A;Experimental source: strain Clip11262
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C;Species: bluetongue virus
C;Date: 17-Feb-1994 #sequence_revision 17-Feb-1994 #text_change 17-Feb-1994
C;Accession: A48561
R;Hwang, G.Y.; Chiou, J.F.; Yang, Y.Y.; Li, J.K.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Note: sequence extracted from NCBI backbone (NCBIN:115442, NCBIP:115444)
C;Genetics:
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Pred. No. 2.3e+02;
1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 28, DB 2, Length 283;
Pred. No. 2e+02,
1; Mismatches 0, Indels
                                                                                                  Score 28; DB 2; Length 283;
Pred. No. 2e+02;
1; Mismatches 0; Indels
       A;Gene: 1mo2514
C;Superfamily: Mycoplasma hypothetical protein MG326
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C,Superfamily: bluetongue virus VP6 protein
C,Keywords: capsid protein
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Best Local Similarity 83.3%;
Matches 5; Conservative
                                                                                                      90.3%;
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Best Local Similarity 83.33
Matches 5; Conservative
                                                                     Query Match
Quest Local Similarity 83.5
Best Local 5; Conservative
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A; Residues: 1-325 < HWA>
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169 LQRGGR 174
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Gene: lin2658
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AB138
B. subtilis YviA (DegV) protein homolog lmo2514 [imported] - Listeria monocytogenes (str. C; Species: Listeria monocytogenes
C; Species: Listeria monocytogenes
C; Date: 27-Nov-2001 #sequence_revision 27-Nov-2001 #text_change 01-Mar-2002
C; Accession: AB1389
R; Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloecker. D: Jonnes, L.M.; Karst, U.
Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurget, O.; Entian, K.D.; Fsihi, H.
D: Jonnes, L.M.; Karst, U.
Science 294, 849-852, 2001
A;Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; Maitournam, A.; Ma
Ok, C.; Schluebeter, T.; Simces, M.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland, A;Title: Comparative genomics of Listeria species.
A;Reference number: AB189
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-283 <GLA>
A;Residues: 1-283 <GLA>
A;Residues: 1-283 <GLA>
A;Resperimental source: strain EGD-e
C;Genetics:
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A; Residues: 1-107 < HEND
B; Russt, F.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; Chd
C.; Bron, S.; Broulliet, S.; Bruschi, C.V.; Caldwell, B.; Capuano, V.; Carter, N.M.; Chd
A.; Ehrlich, S.D.; Emmerson, P.T.; Entian, K.D.; Errington, J.; Fabret, C.; Ferrari, E.
Natures: 390, 249-256, 1997
A; Althors: Foulger, C.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galler
A; Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galler
A; Authors: Lauber, D.; Krodh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois,
A; Authors: Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, S.; Maneel
Y, M.; Ogawa, K.; Ogiwara, A.; Oudega, B.; Park, S.H.; Parro, V.; Pohl, T.M.; Portetelle
N; A; Authors: Schleich, S.; Schroeter, R.; Scoffone, F.; Sekiguchi, Y.; Saton, T.; Scanlon,
A; Authors: Schleich, S.; Schroeter, R.; Scoffone, F.; Sekiguchi, M.; Tosato, V.; Uchiyama,
A; Authors: Yoshikawa, H.F.; Zumsrein, B.; Rose, M.; Danchin, A.
A; Title: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis.
A; Accession: A70042
A; Schroeter, C. Rown, translation not shown
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                                                                                                                                                                                                                                                                                                                                                R;Henner, D.J.; Yang, M.; Ferrari, E.
J. Bacteriol. 170, 5102-5109, 1988
A;Title: Localization of Bacillus subtilis sacU(Hy) mutations to two linked genes with A;Reference number: A30191; MUID:89033891; PMID:3141378
A;Accession: D30191
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 21-Jul-2000 C;Accession: 140386; D30191, A70042; S28596 R;Londono-Vallejo, J.A.; Dubnau, D. Mol. Microbiol. 9, 119-131, 1993 A;Title 1993 A;Title 1000 A;Title 110386; MUID:94018599; PMID:8412657
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A;Residues: 1-281 <RES>
A;Cross-references: EMBL:Z18629; NID:g39847; PIDN:CAA79225.1; PID:g39848
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Pred. No. 2e+02;
1; Mismatches 0; Indels
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C;Superfamily: Mycoplasma hypothetical protein MG326
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Matches 5; Conservative 1
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A; Residues: 1-281 < KT
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Search completed: April 15, 2004, 10:28:55 Job time: 22 secs

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P56199 homo sapien 087kx0 vibrio para 084kx0 vibrio para 084cy vibrio para 051575 pseudomonas P32436 bacillus sylve 08445 listeria in 08446 listeria in 08346 listeria in 08346 listeria in 0832k tropheryma P3233 bluetongue P3233 bluetongue P32934 bluetongue P32936 bluetongue P32936 bluetongue P32066 bluetongue P32066 bluetongue P32066 bluetongue P32066 bluetongue P32070 
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                                                                                                                                                                                 April 15, 2004, 10:27:11 ; Search time 11 Seconds (without alignments) 28.402 Million cell updates/sec
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   version 5.1.6
- 2004 Compugen Ltd.
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YP14_LIGNO
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YP08_LIGIN
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VP6_BTV11
VP6_BTV11
VP6_BTV11
VP6_BTV13
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PHY_FINSY
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RL15_BRANA
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Listing first 45 summaries
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- FUNCTION: INTEGRIN ALPHA-1/BETA-1 IS A RECEPTOR FOR LAMININ AND COLLAGEN. IT RECOGNIZES THE PROLINE-HYDROXYLATED SEQUENCE G-F-F-G-
        translation initiation factor 3 subunits p66 (eIF3d) and p48 (eIF3e), respectively, are required for stable association of eIF3 subunits."; J. Biol. Chem. 277:2560-2567(2002).
-!- FUNCTION: Binds to the 40S ribosome. Induces instabilty in microtubules. Affect spingle formation.
-!- SUBUNIT: Associates with prt1 subunit of eIF3. Interacts with
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MEDINE-99155124; PubMed-8428973;
Briesewitz R., Epstein M.R., Marcantonio B.E.;
"Expression of native and truncated forms of the human integrin alpha
                                                                                                                                                                                                                                                                                                                 Gaps
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
NCBI_TaxID=9606,
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01-NOV-1997 (Rel. 35, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Integrin alpha-1 (Laminin and collagen receptor) (VLA-1) (CD49a)
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 "Moel and spInt6, the fission yeast homologues of mammalian
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EMBL, AF038568; AAD08893.1; --
EMBL, A134583; CAA22586.1; --
EMBL, T43555.

GeneDB SPombe; SPAC637.07; --
InterPro, IPR007783; EIF-2 zeta.

Pfam; PF05091; EIF-3 zeta; 1.

Nuclear protein; IniTiation factor; Protein biosynthesis.

CONFLICT 367 367 Q -> E (IN REF. 2).
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-!- SUBCELLULAR LOCATION: Nuclear.
-!- SIMILARITY: BELONGS TO THE EIF3S7 FAMILY.
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R MIM; 192988; -
GO; GO:00084895; F:cell adhesion receptor activity; NAS.
R GO; GO:0004895; F:cell adhesion receptor activity; NAS.
R GO; GO:000160; P:cell-marrix adhesion; NAS.
R GO; GO:000160; P:cell-marrix adhesion; NAS.
R InterPro; IPR000413; Integrin_alpha.
R InterPro; IPR000413; Integrin_alpha.
R Ffam; PF00357; war; 1.
R Ffam; PF00357; untegrin_A; 1.
R Ffam; PF00357; untegrin_A; 1.
R SMART; SM00191; Int alpha; 5.
R SMART; SM00191; Int alpha; 5.
R ROSITE; PS00242; INTEGRIN ALPHA; 1.
R ROSITE; PS00242; WRFA; 1.
R ROSITE; Cell adhesion; Receptor; Glycoprotein; Transmembrane; M Mepeat; Calcium; Magnesium; 3D-structure.
R PROMIN: Magnesium; 3D-structure.
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R PANA: Magnesium; AD-STRUCELLULAR (POTENTIAL).
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[1] SEQUENCE FROM N.A.

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STRAIN=RIMD 2210633 / Serotype 03:K6;
MEDLINE=22508454; PubMed=12620739;
MEDLINE=22508454; PubMed=12620739;
MEDLINE=22508454; PubMed=12620739;
MENLINE X., Oshima K., Kurokawa K., Yokoyama K., Uda T., Tagomori K.,
Iijima Y., Najima M., Nakano M., Yamashita A., Kubota Y., Kimura S.,
Yasunaga T., Honda T., Shinagawa H., Hattori M., Iida T.;
"Genome sequence of Vibrio parahaemolyticus: a pathogenic mechanism
distinct from that of V. cholerae.";
Lancet 361743-749(2003).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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                                                                                                                                                                                                                                                                                                                               Bacteria, Proteobacteria, Gammaproteobacteria, Vibrionales, Vibrionaceae, Vibrio.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bacteria; Proteobacteria; Gammaproteobacteria; Vibrionales;
Vibrionaceae; Vibrio.
NCBI_TaxID=672;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CATALYTIC ACTIVITY: ATP + D-fructose 6-phosphate = ADP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-OCT-2003 (Rel. 42, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
6-phosphofructokinase (EC 2.7.1.11) (Phosphofructokinase)
                                                                                                                                               10-OCT-2003 (Rel. 42, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
6-phosphofructokinase (EC 2.7.1.11) (Phosphofructokinase)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PROSITE; PSO0433; PHOSPHOFRUCTOKINASE; 1.
Kinase; Transferase; Glycolysis; Complete proteome.
SEQUENCE 320 AA; 34582 MW; A39DEF12E37AF211 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 30; DB 1;
Pred. No. 27;
1; Mismatches (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     320 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HAMAP; MF_00339; -; 1.
InterPro; IPR000023; Ppfruckinase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL; AP005083; BAC61118.1; -.
                                                                                                                      Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last seg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PR00476; PHFRCTKINASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  96.8%;
83.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity 83.2
5, Conservative
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                                                         STANDARD;
                                                                                                                                                                                                                                                                                                      Vibrio parahaemolyticus
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PFKA OR VV11257.
                                                                                                                                                                                                                                            Phosphohexokinase).
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251 IQRGGR 256
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                                                                                                                                                                                                                                                                      PFKA OR VP2855
                                                                                                                   10-OCT-2003
                                                      VIBPA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     K6PF VIBVU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OBDCY1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRINTS;
                                                                               087 KX0
RESULT 3
K6PF_VIBPA
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VIBVU
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X6PF VIE
AC 086
AC 086
DT 100
DT 100
DD 100
DD 000
DD 00
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Clapham D.H., Kolukisaoglu H.U., Larsson C.T., Qamaruddin M.,

Clapham D.H., Kolukisaoglu H.U., Larsson C.T., Qamaruddin M.,

Exberg I., Wiegmann-Birund C., Schneider-Poetsch H.A., von Arnold S.;

Thytochrome types in Picea and Pinus. Expression patterns of

"Phytochrome types in Picea and Pinus. Expression patterns of

"Phytochrome types in Picea and Pinus. Expression patterns of

"Phytochrome types in Picea and Pinus.

"Phytochrome types in Picea and Pinus.

"In Phytochrome types in Phytochrome
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Spermatophyta; Coniferopsida; Coniferales; Pinaceae; Pinus.
NCBL_TaxID=3349;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              bisphosphate carboxylase, chlorophyll A/B binding protein, protochlorophyllide reductase, rRNM, etc. It also controls the expression of its own gene(s) in a negative feedback fashion. sUBUNIT: Homodimer (By similarity).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .
                                                                                                                       Complete genome sequence of Vibrio vulnificus CMCP6.";
Submitted (DEC-2002) to the EMBL/GenBank/DDBJ databases.
-!- CATALYTIC ACTIVITY: ATP + D-fructose 6-phosphate = ADP +)
fructose 1,6-bisphosphate of glycolysis.
-!- PATHWAY: Key control step of glycolysis.
-!- PATHWAY: LOCATION: Cytoplasmic (By similarity).
-!- SUBCELLULAR LOCATION: Cytoplasmic (By similarity).
                                                                 Rhee J.H., Kim S.Y., Chung S.S., Kim J.J., Moon Y.H., Jeong
Choy H.B.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 320;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PERNYS; PR00476; PFK; 1.
PRINYS; PR00476; PHFRCTKINASE.
ProDom; PD000707; PPFRUCKINASE; 1.
PROSITE; PS00433; PHOSPHOFRUCTOKINASE; 1.
SKINASE; TRANSFERASE; GlyColygis; Complete proteome.
SEQUENCE 320 AA; 34469 MW; 29515DB431453901 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 30; DB 1;
Pred. No. 27;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (Rel. 35, Created)
(Rel. 35, Last sequence update)
(Rel. 41, Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HAMAP; MF_00339; -; 1.
InterPro; IPR000023; Ppfruckinase.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pinus sylvestris (Scots pine)
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Similarity 83.3%;
5; Conservative
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Best Local Similarity
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01-NOV-1997
28-FEB-2003
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Q41046;
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Matches
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PHY_PINSY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Xcp-mediated protein secretion in Pseudomonas aeruginosa: identification of two additional genes and evidence for regulation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
STRAIR=ATCC 15692 / PAOL;
STRAIR=ATCC 15692 / PAOL;
STRAIR=ATCC 15692 / PAOL;
Stover C.K., Pham X.-Q.T., Erwin A.L., Mizoguchi S.D., Warrener P.,
Hickey M.J., Brinkman F.S.L., Hifinagle W.O., Kowallik D.J., Lagrou M.
Garber R.L., Goltry L., Tolentino E., Westbrock-Wadman S., Yuan Y.,
Brody L.L., Coulter S.N., Folger K.R., Kas A., Larbig K., Lim R.M.,
Smith K.A., Spencer D.H., Wong G.K.-S., Wu Z., Paulsen I.T.,
Reizer J., Saier M.H., Hancock R.E.W., Lory S., Olson M.V.;
"Complete genome sequence of Pseudomonas aeruginosa PAOL, an
Slesarev A.I., Mezhevaya K.V., Makarova K.S., Polushin N.N., Shcharbinina O.V., Shakhova V.V., Belova G.I., Aravind L., Natale D.A., Rogozin I.B., Tatusov K.L., Wolf Y.I., Stetter K.O., Malykh A.G., Koonin E.V., Kozyavkin S.A.; "The complete genome of hyperthermophile Methanopyrus kandleri AV19 and monophyly of archaeal methanogens.", Proc. Natl. Acad. Sci. U.S.A. 99:4644-4649(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
STRAIN=ATCC 15692 / PAO1;
MEDLINE=95020642; PubMed=7934833;
Akrim M., Bally M., Ball G., Tommassen J., Teerink H., Filloux A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pseudomonas aeruginosa.
Bacteria, Proteobacteria, Gammaproteobacteria, Pseudomonadales,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          90.3%; Score 28; DB 1; Length 74; 83.3%; Pred. No. 17; 0; Indels ive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    74 AA; 8739 MW; D033CA40786A1B96 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GSPN_PSEAE STANDARD; PRT; 235 AA.
2051575; OHTER3;
16-0CT-2001 (Rel. 40, Last sequence update)
16-0CT-2001 (Rel. 40, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                             HAMAD, MF 01245, 1. 1.
InterPro, IPR007547, DUF504.
Pfam; PF04457; DUF504.
Hypothetical protein; Complete proteome.
SEQUENCE 74 AA; 8739 WW; D033CA40786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SUBCELLULAR LOCATION, AND TOPOLOGY.
MEDLINE=96312375; PubMed=8763961;
Bleves S., Lazdunski A., Filloux A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       . Microbiol. 10:431-443(1993).
                                                                                                                                                                                                                                                                                                                                                           EMBL; AE010332; AAM01565.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pseudomonadaceae; Pseudomonas.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          opportunistic pathogen."
Nature 406:959-964(2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     xcp gene expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity
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56 VERGGR 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 VORGGR 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lazdunski A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Methanopyrus kandleri.
Archaea; Buryarchaeota; Methanopyri; Methanopyrales; Methanopyraceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
PTM: Contains one covarently transfer family.

SIMILARITY: Belongs to the phytochrome family.

SIMILARITY: Contains 2 PAS (PER-ARNT-SIM) dimerization domains.

SIMILARITY: Contains 1 PAS-associated C-terminal (PAC) domain.

SIMILARITY: Contains 1 histidine kinase domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TIGRFAMS; TIGR00229; sensory box; 2.
PROSITE; PS50109; HIS_XIN; 1.
PROSITE; PS50112; PAS; 2.
PROSITE; PS00245; PHYTOCHROME 1; 1.
PROSITE; PS5046; PHYTOCHROME 2; 1.
Transcription regulation; Photoreceptor; Phytochrome; Chromophore;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  96.8%; Score 30; DB 1; Length 1131;
83.3%; Pred. No. 95;
iive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     621 692 PAS 1.
755 826 PAS 2.
903 1123 HISTIDE KINASE.
913 332 CHROWOPHORE (BY SIMILARITY).
1131 AA; 126254 MW; DG3A2008FA9862FB CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Hypothetical UPF0248 protein MK0350.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     74 A.A.
                                                                                                                                                                                                                                                                                                            EMBL; X96738; CAA65510.1; -.
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STRAIN=AV19 / DSM 6324 / JCM 9639;
MEDLINE=21927647; PubMed=11930014;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local Similarity 83.3
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Methanopyrus.
NCBI_TaxID=2320;
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BINDING
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Y350 METKA
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Gaps

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MEDLINE=89033891; PubMed=3141378;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Complete proteome.
SEOUENCE 281 AA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               **ESULT 9
YP14_LISMO
YP14_LISMO
AC 2844D5 f
DT 28-FEB-2 DT 10-C
DT 10-C
GN GN
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                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@lsb-sib.ch)
                                                                                                                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                           CYTOPLASMIC (POTENTIAL).
SIGNAL-ANCHOR (TYPE II MEMBRANE PROTEIN)
                                                                                                                                                                                                                                                                                                                                                           Gaps
         transport by Pseudomonas aeruginosa.";
J. Bacteriol. 178 4297-4300(1996).
-!- FUNCTION: INVOLVED IN A GENERAL SECRETION PATHWAY (GSP) FOR THE EXPORT OF PROTEINS. REQUIRED FOR THE TRANSLOCATION OF A VARIETY OF ENZYMES ACROSS THE OUTER MEMBRANE.
-!- SUBCELLULAR LOCATION: Type II membrane protein. Inner membrane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kunst F., Ogasawara N., Moszer I., Albertini A.M., Alloni G.,
Azevedo V., Bertero M.G., Bessieres P., Bolotin A., Borchert S.,
Borriss R., Boursier L., Brans A., Braun M., Brignell S.C., Bron S.,
Brouillet S., Bruschi C.V., Caldwell B., Capuano V., Carter N.M.,
Choi S.K., Codani J.J., Connerton I.F., Cummings N.J., Daniel R.A.,
Denizot F., Devine K.M., Dusterhoft A., Ehrlich S.D., Emmerson P.T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Londono-Vallejo J.A., Dubnau D.;
"comP, a Bacillus subtilis late competence locus, encodes a protein
similar to ATP-dependent RNA/DNA helicases.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Soldo B., Lazarevic V., Mauel C., Karamata D., "Sequence of the Bacillus subtilis 168 chromosomal region from 305 to 307 degree."; Submitted (JAN-1997) to the EMBL/GenBank/DDBJ databases.
 "Membrane topology of three Xcp proteins involved in exoprotein
                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                  Score 28; DB 1; Length 235;
Pred. No. 53;
                                                                                                                                                                                                        EMBL; AE004734; AAG06492.1; -.
PIR; S39652; S39652.
Inner membrane; Transmembrane; Transport; Signal-anchor;
                                                                                                                                                                                                                                                                                                                                                           0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
                                                                                                                                                                                                                                                                                 (POTENTIAL).
PERIPLASMIC (POTENTIAL).
DE9726984D89A0D7 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                           1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRAIN=168;
MEDLINE=98044033; PubMed=9384377;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=94018599; PubMed=8412657;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mol. Microbiol. 9:119-131(1993)
                                                                                                                                                                                                                                                                                              235 PJ
25496 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Created)
                                                                                                                                                                                                                                                                                                                                90.3%;
                                                                                                                                                                                               EMBL; X68594; CAA48581.1; -.
                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 83.3.
5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STANDARD;
                                                                                                                                                                                                                                                           34
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                                                                                                                                                                                                                                                                                                        235 AA;
                                                                                                                                                                                                                                                                                                                                                                                                        154 LORGGR 159
                                                                                                                                                                                                                                              Complete proteome. DOMAIN 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
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OR BSU35480.
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P32436;
                                                                                                                                                                                                                                                                      TRANSMEM
                                                                                                                                                                                                                                                                                                          SEQUENCE
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Entian K.D., Errington J., Fabret C., Ferrari E., Foulger D.,
A Grid G., Fujita M., Fujita Y., Fuma S., Galizzi, A., Galleron N.,
A Ghim S.Y., Glaser P., Goffeau A., Golightly E.J., Grandi G.,
Guiseppi G., Guy B.J., Haga K., Haiech J., Harwood C.R., Henaut A.,
Hilbert H., Holsappel S., Hosono S., Hullo M.F., Itaya M., Jones L.,
A Joris B., Karamata D., Kasahara Y., Klaerr-Blanchard M., Milein C.,
A Joris B., Karamata D., Kasahara Y., Klaerr-Blanchard M., Milein C.,
A Will A., Lapidus A., Lardinois S., Lauber J., Lazarevic V.,
Levine A., Liu H., Masuda S., Mauel C., Medigue C.,
A Medina N., Mellado R.P., Mituno M., Moestl D., Nakai S., Noback M.,
Noone D., O'Reilly M., Ogawa K., Ogiwara A., Oudega B., Park S.H.,
Presecan E., Pujic P., Purnelle B., Porwollik S., Prescott A.M.,
Presecan E., Pujic P., Purnelle B., Rapoport G., Rey M., Reynolds S.,
Rieger M., Rivolta C., Rocha E., Roche B., Rose M., Sadaie Y.,
A Rikeuchi M., Tanakoshi A., Tanaka T., Takahashi H., Takamaru K.,
Tosato V., Uchiyama S., Vandenbol M., Vannier P., Yasarotti A.,
Viari A., Wambutt R., Wedler E., Wedler H., Weltzenegger T.,
Minters P., Wipat A., Yamamoto H., Yamane K., Yasumoto K., Yata K.,
Take complete genome sequence of the Gram-positive bacterium Bacillus
Fullishils.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Henner D.J., Yang M., Ferrari E.;
"Localization of Bacillus subtilis sacU(Hy) mutations to two linked genes with similarities to the conserved procaryotic family of two-component signalling systems.";
J. Bacteriol. 170:5102-5109(1988).
-!- SIMILARITY: BELONGS TO THE UPF0230 (DEGV) FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
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Pred. No. 64;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              %3-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Hypothetical UPF0230 protein lmo2514.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        90.3%; Score 28; 83.3%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; 218629; CAA79225.1; --
EMBL; 299122; CAB79225.1; --
EMBL; 299122; CAB15565.1; --
EMBL; MA3558; --
FIR; 140386; D30191.
Subtilist; BG10394; degV.
Fam; PRO2645; DUR194; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              reduced genome.";

Genome Res. 13:1800-1809(2003).

Genome Res. 10:1800-1809(2003).

FUNCTION: Catalyzes the phosphorylation of NAD to NADP. Utilizes

ATP and other nucleoside triphosphates as well as inorganic
polyphosphate as a source of phosphorus (By similarity).

CATALYTIC ACTIVITY: ATP + NAD(+) = ADP + NADP(+).

SUBCELLULAR LOCATION: Cytoplasmic (By similarity).

SUBCELLULAR LOCATION: Cytoplasmic (By similarity).

SIMILARITY: Belongs to the NAD kinase family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tropheryma whipplei Twist: a human pathogenic Actinobacteria with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
MEDLINE=22784088; PubMed=12902375;
MEDLINE=22784088; PubMed=12902375;
Olavelt D., Ogata H., Audic S., Robert C., Suhre K., Drancourt M.,
Clavelte J.-M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
10-OCT-2003 (Rel. 42, Last annotation update)
Probable innorganic polyphosphate/ATP-NAD kinase (EC 2.7.1.23)
PPNK OR TWI103.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tropheryma whipplei (strain Twist) (Whipple's bacillus).
Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
Micrococcineae; Cellulomonadaceae; Tropheryma.
NCBI_TaxID=203267;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                90.3%; Score 28; DB 1; Length 283; 83.3%; Pred. No. 64; 0; Indels ive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                         EMBL, ALS96173; CAC97884.1; -.
PIR, AD1764; AD1764.
Listilist; LIN02658; -.
LiterPro; IPR003797; DegV.
Pfam; PF02645; DUF194; 1.
TIGREMAS; TIGRO0762; DegV, 1.
Hypothetical protein; Complete proteome.
SEQUENCE 283 AA; 31447 MW; 7E389DC8AlAEIEB7 CRC64;
                    Vazquez-Boland J.-A., Voss H., Wehland J., Cossart P. "Comparative genomics of Listeria species."; Science 294:849-852(2001).
-i. SIMILARITY: BELONGS TO THE UPF0230 (DEGV) FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; AE016850; AAO44200.1; -.
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InterPro; IPR002504; ATP_NADK.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 83.3
Matches 5; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STANDARD;
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169 LQRGGR 174
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Q83GX6;
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                                                                                                                     X MEDLINE=21537279; PubMed=11679669;
X MEDLINE=21537279; PubMed=11679669;
A Glaser P., Frangeul L., Bloecker H., Brandt P., Chakraborty T.,
Baquero F., Berche P., Bloecker H., Brandt P., Chakraborty T.,
A Charbit A., Chetouani F., Couve B., de Dartwar A., Dehoux P.,
Domann E., Dominguez-Bernal G., Duchaud E., Durant L., Dussurget O.,
Brian K.-D., Fsihi H., Garcia-del Portillo F., Garrido P.,
Brian K.-D., Fsihi H., Gancz-Lopez N., Hain T., Hauf J., Jackson D.,
Jones L., Goebel W., Gomez-Lopez N., Hain T., Hauf J., Jackson D.,
Jones L.-M., Kaerst U., Kreft J., Kunn M., Kunst F.,
Madueno E., Maitournam A., Mata Vicente J., Ng E., Nedjarl H.,
A Nordala S., de Pablos B., Perez-Jaz J.-C., Purcell R.,
Remmel B., Rose M., Schlueter T., Simoes N., Tierrez A.,
Warquez-Boland J.-A., Voss H., Wehland J., Cossart P.,
Comparative genomics of Listeria species.;
Science 294:849-852(2001).
C. -: SIMILARITY: BELONGS TO THE UPF0230 (DEGV) FAMILY.
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STRAIN=CLIP 11262 / Sercoar Ga;

MEDLINE=21537279; PubMed=11679669;

MEDLINE=21537279; PubMed=11679669;

Glaser P., Frangeul L., Buchrieser C., Rusniok C., Amend A.,

Baquero F., Berche P., Bloecker H., Brandt P., Chakraborty T.,

Charbit A., Chetounani F., Couve E., de Daruvar A., Dehoux P.,

Entian E., Dominguez-Bernal G., Duchaud E., Durant L., Dussurget O.,

Entian K.-D., Fsihi H., Garcia-del Portillo F., Garrido P.,

Gautier L., Goebel W., Gomez-Lopez N., Hain T., Hauf J., Jackson D.,

Jones L.-M., Kaerst U., Kreft J., Kunn M., Kunst F., Kurapkar G.,

Madueno E., Maitournam A., Mata Vicente J., Ng E., Nedjari H.,

Nordsiek G., Novella S., de Pablos B., Perez-Diaz J.-C., Purcell R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ö
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                    Firmicutes; Bacillales; Listeriaceae; Listeria.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bacteria; Firmicutes; Bacillales; Listeriaceae; Listeria.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    al protein, Complete proteome.
283 AA; 31257 MW; 2676C2CFF7D2666C CRC64;
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28-FEB-2003 (Rel. 41, Last sequence update)
10-0CT-2003 (Rel. 42, Last annotation update)
Hypochetical UPF0230 protein lin2658.
LIN2658.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; AL591983; CAD00592.1; -.
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Listilist; LMO02514; -.
InterPro; IPRO03797; DegV.
PFam: PF02645; DUF194; 1.
TIGRPAMS; TIGRO0762; DegV; 1.
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Matches 5; Conservative
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                                                                                                      SEQUENCE FROM N.A.
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                                         NCBI_TaxID=1639;
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RESULT 10 YQ58\_LISIN

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01-0CT-1993 (Rel. 27, Created)
01-0CT-1993 (Rel. 27, Last sequence update)
01-0CT-1998 (Rel. 37, Last amnotation update)
VP6 protein (Minor inner core protein VP6).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GLY-RICH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PIR; A48561; A48561.
InterPro; IPR001399; Orbi VP6.
Pfam; PF01516; Orbi VP6; 1.
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SEQUENCE 325 AA; 35371 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               90.3%;
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Best Local Similarity
Matches 5; Conserv
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01-OCT-1993
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VP6_BTV13
                    SO TWENTY BY A PROPERTY BY BY A PROPERTY BY 
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A Bentley S.D., Maiwald M., Murphy L.D., Pallen M.J., Yeats C.A.,

A Bentley S.D., Maiwald M., Murphy L.D., Pallen M.J., Yeats C.A.,

A Bentley S.D., Maiwald M., Murphy L.D., Quail M.A., Harris D.E.,

A von Herbay A., Goble A., Rutter S., Squares R., Squares S.,

Barrell B.G., Parkhill J., Relman D.A.;

"Sequencing and malyals of the genome of the Whipple's disease

"Sequencing and malyals of the genome of the Whipple's disease

"Barrell B.G., Parkhill J., Relman D.A.;

"Sequencing and calalyases the phosphares as well as inorganic

"I Lancet 361:637-644(2003).

"I Lancet 361:637-644(2003).

"I Carlalyase the phosphares as well as inorganic

polyphosphate as a source of phosphares (By similarity).

"I Carlaylase Try ATP + NAD(+) = ADP + NADP(+).

"I CARLALYIC ACTIVITY: ATP + NAD(+) = ADP + NADP(+).

"I CARLALYIC ACTIVITY: ATP + NAD(+) = ADP + NADP(+).

"I CARLALYIC ACTIVITY: ATP + NAD(+) = ADP + NADP(+).

"I COPACTOR: Divalent metal ions (By similarity).

"I SIMILARITY: Belongs to the NAD kinase family.
                                                                                                                                                                                                                                                   Gaps
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10-0cT-2003 (Rel. 42, Last sequence update)
10-0cT-2003 (Rel. 42, Last annotation update)
Probable inorganic polyphosphate/ATP-NAD kinase (EC 2.7.1.23)
(Poly(P)/ATP NAD kinase).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tropheryma whipplei (strain TW08/27) (Whipple's bacillus).
Bacteria, Actinobacteria; Actinobacteridae; Actinomycetales;
Micrococcineae; Cellulomonadaceae; Tropheryma.
                                                                                                                                                              90.3%; Score 28; DB 1; Length 301; 83.3%; Pred. No. 69; 1ve 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      90.3%; Score 28; DB 1; Length 305; 83.3%; Pred. No. 69; ive 1; Mismatches 0; Indels
Pfam; PF01513; NAD kinase; 1.
Transferase; Kinase; NAD; NADP; Complete proteome.
SEQUENCE 301 Aa; 32917 MW; E44153CD31FEBB99 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL; BX251410; CAD66795.1; -.
HAMAP; MF 00361; -; 1.
InterPro; IPR002504; ATP NADK.
Pfam; PF01513; NAD kinase; 1.
Transferase; Kinase; NAD; NADP; Complete proteome.
SEQUENCE 305 AA; 33273 MW; C53563B959052E5D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           305 AA
                                                                                                                 Query Match
Best Local Similarity Bs...
5, Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STANDARD;
                                                                                                                                                                                                                                                                                                                                                                |||||:
144 VQRGGK 149
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PPNK TROWB
ID Q831G3
DT 10-OCT-
DT 10-OCT-
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DT 10-OCT-
DE PROK OI
ON TOOPHORY
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325 AA.

STANDARD;

VP6\_BTV11 ID VP6\_BTV11 AC P32933;

RESULT 13

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                                                                                                         MEDLINE=93033709; PubMed=1329371;
MEDLINE=93033709; PubMed=1329371;
Menng G.-Y., Chiou U.-F., Yang Y:-Y., Li J.K.-K.;
Menng G.-Y., Chiou U.-F., Yang Y:-Y., Li J.K.-K.;

Virus Res. 24:312-323(1922).

-!- FUNCTION: SURROUNDS AND INTERACTS WITH THE GENOMIC DS-RNA.

--- FONGTION: SURROUNDS AND INTERACTS WITH THE GENOMIC DS-RNA.

--- FONGTION: WITH BTY GENOMIC RAPACITY. ITS HYDROPHILIC
NATURE AND CAPABLILITY TO BIND SS- AND DS-RNA SUGGEST ITS
INTERACTIONS WITH BTY GENOMIC RAPACITY.

--- SUBCELLULAR LOCATION: Inner capaid.

--- SIMILARITY: Belongs to the recviruses VP6 family.
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MEDLINE=93033709; PubMed=1329371;
Menang G.-Y., Chiou U.-F., Yang Y.-Y., Li J.K.-K.;
Menang G.-Y., Chiou U.-F., Yang Y.-Y., Li J.K.-K.;
Mongarative sequence analyses of the cognate structural protein VP6 genes of five US bluetongue viruses.";
Virus Res. 24.315-323(1992).
-!- FUNCTION: SURROUNDS AND INTERACTS WITH THE GENOMIC DS-RNA.
--- FONGTION: SURROUNDS AND INTERACTS WITH THE GENOMIC DS-RNA.
--- ROSESSES SS- AND DS-RNA-BINDING CAPACITY. ITS HYDROPHILIC NATURE AND CAPABILITY TO BIND SS- AND DS-RNA SUGGEST ITS
INTERACTIONS WITH BTV GENOMIC RNA.
--- SUBCELLULAR LOCATION: Inner capaid.
--- SIMILARITY: Belongs to the reoviruses VP6 family.
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0
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Bluetongue virus (serotype 11 / isolate USA).
Viruses; dsRNA viruses; Recviridae; Orbivirus.
NCBI_TaxID=33716;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 28; DB 1;
Pred. No. 74;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bluetongue virus (serotype 13 / isolate USA). Viruses, dsRNA viruses, Reoviridae, Orbivirus.
NCBI_TaxID=33717,
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01-OCT-1993 (Rel. 27, Last sequence update)
15-DEC-1998 (Rel. 37, Last annotation update)
VF6 protein (Minor inner core protein VP6).
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Hwang G.-Y., Chiou J.-F., Yang Y.-Y., Li J.K.-K.;

Hwang G.-Y., Chiou J.-F., Yang Y.-Y., Li J.K.-K.;

"Comparative sequence analyses of the cognate structural protein VP6
genes of five US bluetongue viruses.";

Virus Res. 24:315-323(1992)

-!-FUNCTION SURFOUNDS AND INTERACTS WITH THE GENOMIC DS-RNA.

POSSESERS SS- AND DS-RNA-BINDING CAPACITY. ITS HYDROPHILIC

NATURE AND CAPABILITY TO BIND SS- AND DS-RNA SUGGEST ITS

INTERACTIONS WITH BTV GENOMIC RNA.

-!-SUBCELLULAR LOCATION: Inner capsid.

-!-SIMILARITY: Belongs to the reoviruses VP6 family.
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0
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: F084DB712702A334 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bluetongue virus (serotype 17 / isolate USA).
Viruses, dsRNA viruses, Reoviridae, Orbivirus.
NCBI_TaxID=33718;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        01-0CT-1993 (Rel. 27, Created)
01-0CT-1993 (Rel. 27, Last sequence update)
01-0CT-1998 (Rel. 37, Last annotation update)
VP6 protein (Minor inner core protein VP6).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      325 AA.
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                                                                                                                                                            EMBL, L08671; AAA42820.1; -.
InterParc, IRRO01399; Orbi VP6.
Pfam; PF01516; Orbi VP6; I.
PRINTS; PR00902; VP6CAPSID.
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InterFro; IRR001399; Oxbi, VP6.
Ham, PF01516; Oxbi, VP6; I.
PRINTS; PR00902; VPĒCAPSID.
                                                                                                                                                                                                                                                        DOMAIN 84 125 G
SEQUENCE 325 AA; 35245 MW;
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325 AA; 35317 MW;
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Best Local Similarity 83.3.
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VERGGR 204
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VP6_BTV17
ID VP6_BTV17
AC P32935;
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199 VERGGR 204
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Search completed: April 15, 2004, 10:29:19 Job time: 12 secs

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1 VORGGR 6

Gaps

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Q9adho streptomyce Q846q2 myxococcus Q814g9 corrynebacte Q814g9 corrynebacte Q814g9 corrynebacte Q814g9 corrynebacte Q859m5 mus musculu Q859m5 mus musculu Q859m5 methanobact Q913g2 pseudomonas Q844y corra sativ Q814y corra sativ Q814y corra sativ Q814y corra sativ Q813p2 pseudomonas Q86073 leptospira Q7x297 griffithsia Q7x297 griffithsia Q8720 pseudomonas Q86073 leptospira Q84059 bacillus in Q813g1 bacillus an Q815g1 bacillus an Q815g1 bacillus corradomycocc Q919g1 schizosacch Q9hhl6 methanosarc Q9665 bluetongue Q96656 bluetongue
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Moriyama H.; "Har." in Congo.";
"HIV-1 in Congo.";
Submitted (MAR-1998) to the EMBL/GenBank/DDBJ databases.
EMBL; AF056186; AAC61996.1; "Interpro; IPR0000012; Retrov_VpR/X.
Pfam; PF00522; VPR; 1.
PRINTS; PR00444; HIVVPRVPX.
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08, Last sequence update)
24, Last annotation update)
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Viruses; Retroid viruses; Retroviridae; Lentivirus
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074043
09ADNO
0845NO
0931NBO
08ETGB
08C9MS
08FWS
09AFWS
09
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Q47482;
01-NOV-1996 (TrEMBLrel. 01, Created)
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091897;
01-NOV-1998 (TYEMBLEEL] 08
01-NOV-1998 (TYEMBLEEL] 08
01-JUN-2003 (TYEMBLEEL] 24
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Best Local Similarity
Matches 6; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=11676;
   STRAIN=CNG30.5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Vpr protein.
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   RESULT 2
047482
ID 0474
AC 0474
DT 01-N
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091897
   Q47482 escherichia
Q812b8 anacardium
Q812d4 linum usita
Q80ccz7 mus musculu
Q84341 bacteroides
Q07397 mycobacteri
Q84416 agrobacteri
Q98buc rhizobium 1
Q88ue4 encephalito
Q98uu4 sulfolous
Q88df0 bradythizob
Q89df0 bradythizob
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                                                                                          April 15, 2004, 10:27:11; Search time 39 Seconds (without alignments) 48.541 Million cell updates/sec
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                                                                                                                                                                                                                                                                                     1017041
            GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB
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Escherichia coli.

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SEQUENCE FROM N.A.
STRAIN-C57BL/6J; TISSUE-Medulla oblongata;
MEDLINE=2254683; PubMed=12466851;
The FANTOM Consortium.
the RIKEN Genome Exploration Research Group Phase I & II Team;
the RIKEN Genome Exploration Research Group Phase I & II Team;
"Analysis of the mouse transcriptome based on functional annotation of
60,770 full-length cDNAs.";
Nature 420:555150202).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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      Linum usitatissimum (Flax) (Linseed)...
Eukaryota, Viridiplantae, Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; rosids;
eurobids I; Malpighiales; Linaceae; Linum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus
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                                                                                                                                                                                                                STRAIN=cv. CDC Normandy;
Truksa M., MacKenzie S.L., Qiu X.;
Molecular cloning of flax 2S storage protein conlinin and specific activity of its promoter.";
Submitted (OCT-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0; Indels
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PRINTS; PR00499; AAI; 1.
SMART; SM00499; AAI; 1.
SEQUENCE 169 AA; 19063 MW; IE315E2928596EFB CRC64;
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                                                                                                                                                                                                                                                                                                                                                            EMBL; AJ414732; CAC94010.1; -. COO. GO: 00.004735; F.nutrient reservoir activity; IEA. InterPro: IPR003612; AA. InterPro: IPR003612; April. InterPro: IPR000617; Napin.
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100.0%; Pred. No. 61;
ive 0; Mismatches 0;
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11arity 100.0%; Pred. No. 72;
Conservative 0; Mismatches 0;
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PIR, PT0649, PT0712.
MGD, MGI:2138735, 6330403A02Rik.
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Q8P408;
01-OCT-2002 (TrEMBLrel. 22,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08CCZ7;
01-MAR-2003 (TrEMBLrel. 23,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6; Conservative
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NON TER 1
SEQUENCE 200 AA; 2
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Best Local Similarity
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72 VQRGGR 77
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Q8CCZ7
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MEDLINE-90170953; PubMed=2155230;

MEDLINE-90170953; PubMed=2155230;

Chen C. M., Ye Q.-Z., Zhu Z., Wanner B.L., Walsh C.T.;

"Molecular biology of carbon-phosphorus bond cleavage: Cloning and sequencing of the phn (psiD) genes involved in alkylphosphonate uptake and C-P lyase activity in Escherichia coli B.";

Biol. Chem. 265-14461-4471(1990).

EMBL, J05260; AAA24351.1;

PIR; C35720; C35720.

SEQUENCE 114 AA; 12496 MW; F754EC426153011A CRC64;
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Spermatophyta; Magnollophyta; eudicotyledons; core eudicots; rosids;
eurosids II; Sepindales; Anacardiaceae; Anacardium.
NCBI_TaxID=171929;
                                                                                                                   Bacteria; Proteobacteria, Gammaproteobacteria; Enterobacteriales;
Enterobacteriaceae; Escherichia.
NCBI_TaxID=562;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 31; DB 2; Length 114; 100.0%; Pred. No. 40;
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Wang F., Roux K.H., Teuber T.S., Sathe S.K.;
Submitted (MAR-2002). to the EMBL/GenBank/DDBJ databases.
EMBL, AY081853; AAL91665.1;
GO, GO:0045735; F:nutrient reservoir activity; IEA.
InterPro; IPR003612; AAI.
InterPro; IPR000617; Napin.
Pfam; PF0024; tryp alpha_amyl; 1.
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SEQUENCE 138 AA; 16335 MW; 63BB43544BD46999 CRC64;
01-NOV-1996 (TrEMBLrel. 01, Last sequence update) 01-UTN-2003 (TrEMBLrel. 24, Last annotation update) ORF114.
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ANA 0 3.
Anacardium occidentale (cashew).

20H2B8 20H2B8 20H2B9 20

2s albumin.

01-MAR-2003 (TrEMBLrel. 23, 01-MAR-2003 (TrEMBLrel. 23, 01-JUN-2003 (TrEMBLrel. 24,

PRELIMINARY;

Q8H2B8 Q8H2B8;

RESULT 3

Conservative

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Q8LPD4; Q8LPD4

RESULT 4
QBLPD4
ID QBLPD4
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Query Match
Best Local Similarity lov..
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VORGGR 65 VORGGR 6

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us-10-625-260-8.open.rspt

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Chiang H.C., Hooper L.V., Gordon J.I.; "A genomic view of the human-Bacteroides thetaiotaomicron symbiosis."; Science 299:2074-2076(2003).
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Labo M., Gusberti L., Rossi E.D., Speziale P., Riccardi G.;
"Determination of a 15437 bp nucleotide sequence around the inhA gene
of Mycobacterium avium and similarity analysis of the products of
                                                            EMBL, AEC16936, AA077583.1; --

R GO; GO:0005622, C.intracellular; IEA.

GO; GO:0005409; F:electron transporter activity; IEA.

GO; GO:0005409; F:electron transporter activity; IEA.

GO; GO:0005412; F:electron transporter activity; IEA.

GO; GO:0006118; F:electron transport; IEA.

R GO; GO:000412; P:protein biosynthesis; IEA.

R InterPro; IPR003256; Ribosomal_L24.

R InterPro; IPR003256; Ribosomal_L24.

R PROSITE; PS00190; CYTCHROWE C; 1.

R PROSITE; PS00190; CYTCHROWE C; 1.

Hypothetical protein; Complete proteome.

Q SEQUENCE 244 AA; 27020 MW; 5946A8BA0EEA60D5 CRC64;
                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 31; DB 16; Length 244; 100.0%; Pred. No. 89; 0; Indels ()
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Endoglucanase.

ACEC OR AU13307 OR AGR L 3023GL.

Agrobacterium tumefaciens (strain C58 / ATCC 33970).

Bacteria, Proteobacteria, Alphaproteobacteria, Rhizobiales,
Rhizobiaceae, Rhizobium/Agrobacterium group, Agrobacterium.

NCBI_TaxiD=176299;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Microbiology 144:807-814(1998).
EMBL; AF002133; AAC46201.1; -.
SEQUENCE 278 AA; 30646 MW; AE985A67F9D09D97 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       007397;

01-UUL-1997 (TERBLE-1 04, Created)

01-UUL-1997 (TERBLE-1 04, Last sequence update)

01-UEC-2001 (TERBLE-1 19, Last annotation update)
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01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
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Best Local Similarity 100...
6; Conservative
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Best Local Similarity 100.00
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mycobacterium avium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             164 VQRGGR 169
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                                                                                                                                                                                                                                                                                                                                                                                                                                           VQRGGR 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN=GIR10;
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28UAR6
100 08UAA
AC 08UAA
DT 01-JI
DT 01-JI
DT 01-G
CB Endo
CC BACC
OC RALL
OX NCBL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 8
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                                                                                                                                                                        RP SECURNCE FROM N.A.

RP STECULNCE TROM N.A.

RP STECULAGE

RECURS.

RECUR
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                                                                                                 Bacteria, Protecharia; Gammaprotecharia; Xanthomonadales; Xanthomonadaceae; Xanthomonas.

NCBI _TaxID=340;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bacteria; Bacteroidetes; Bacteroides (class); Bacteroidales;
Bacteroidaceae; Bacteroides.
NCDI_TaxID=818;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
STRAIN=VPI-5482 / ATCC 29148;
MEDLINE=22550858; PubMed=12663928;
Xu J., Bjursell M.K., Himrod J., Deng S., Carmichael L.K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 200 AA; 21953 MW; ACD29C7AB8E0179A CRC64;
01-OCT-2002 (TrEMBLrel. 22, Last sequence update) 01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Hypothetical protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ProDom; PD000307; HTH_LuxR; 1.
ProDom; PD000039; Response_reg; 1.
PROSITE; PS50110; RESPONSE_REGULATORY; 1.
Complete proteome.
SEQUENCE 200 AA; 21953 MW; ACD29C7AB81
                                             Two-component system regulatory protein. XCC3909.
                                                                                        (pv. campestris)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     InterPro; IPR000792; HTH LuxR.
InterPro; IPR001789; Response_reg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR001789; Response_r
Pfam; PF00195; GerE; I.
Pfam; PF00072; response_reg; 1.
PRINTS; PR00038; HTHLUXR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bacteroides thetaiotaomicron.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRELIMINARY;
                                                                                    Xanthomonas campestris
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 118 VQRGGR 123
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
les 6; Conserv
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STRIN=MARF303099;
MEDLINE=21082930; PubMed=11214968;
MEDLINE=21082930; PubMed=11214968;
Kaneko T., Nakamura Y., Sato S., Asamizu E., Kato T., Sasamoto S., Natenabe A., Idesawa K., Ishikawa A., Kawashima K., Kimura T., Kishida Y., Kiyokawa C., Kohara M., Matsumoto M., Matsuno A., Kishida Y., Nakayama S., Nakazaki N., Shimpo S., Sugimoto M., Takeuchi C., Yamada M., Tabata S.; Nitrogen-fixing symbiotic bacterium "Complete genome structure of the nitrogen-fixing symbiotic bacterium Mesorhizobium loti.";
DNA Res. 7:331-338(200).
EMBL, AP0033006; BABS1876.1; -. HSSP; P77444; 1JF9.
GO; 001016740; Fitransferase activity; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota, Fungi, Microsporidia, Unikaryonidae, Encephalitozoon.
NCBI_TaxID=6035,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 31; DB 16; Length 424; 100.0%; Pred. No. 1.6e+02; cive 0; Mismatches 0; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rhizobium loti (Mesorhizobium loti).
Bacteria, Proteobacteria, Alphaproteobacteria, Rhizobiales,
Phyllobacteriaceae, Mesorhizobium.
                                                                                                                                                                                                                              Length 394;
                                                                                                                                                                                                                                                                                              0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Genoscope;
Submitted (APR-2001) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                              394 AA; 42958 MW; B90607996BE46858 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2; Complete proteome, 424 AA; 46938 MW; 9211C5E265231F1B CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-0CT-2001 (TrEMBLrel. 18, Created)
01-0CT-2001 (TrEMBLrel. 18, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
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01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
Hypothetical protein ECU10_0900.
                                                                                                                                                                                                                          Query Match
100.0%; Score 31; DB 2; I
Best Local Similarity 100.0%; Pred. No. 1.5e+02;
Matches 6; Conservative 0; Mismatches 0;
   metabolism; IEA
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                 InterPro; IPR002037; Glyco hydro BinterPro; IPR008928; Glyco trans_6hp. Pfam; PF01270; Glyco hydro 8; 1. PRINTS; PR00755; GLHYDRLASE8. SEQUENCE 394 AA; 42958 WW; B90607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Aminotransferase, Nifs. MLL5421.
                                                                                                                                                                                                                                                                                                                                                                                                                                262 VQRGGR 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                                                                                                                                                                                             1 VQRGGR 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=381;
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Q8SUE4;
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Q98BU6;
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Q98BU6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE-21608551; PubMed=11743194; Miller N., Blanchard M., A Goodner B., Hinkle G., Gartung S., Miller N., Blanchard M., Qurollo B., Goldman B.S., Caver Y., Askenazi M., Halling C., Mullin L., A Qurollo B., Goldman B.S., Caver Y., Askenazi M., Halling C., Mullin L., Houmiel K., Gordon J., Vaudin M., Iartchouk O., Epp A., Liu F., A Wollam C., Allinger M., Doughty D., Scott C., Lappas C., Markelz B., A Flanagan C., Crowell C., Gurson J., Lomo C., Sear C., Strub G., Cielo C., Slater S., T. "Genome sequence of the plant pathogen and biotechnology agent Agrobacterium tumefaciens C58."; Science 294:2332-2328(2001).

R EMBL; ABC09526; AAL44120.1; -
R EMBL; ABC09525; AAK90085.1; -
R PIR; C98320; C98320.
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J. Bacteriol. 177:1069-1075(1995).
EMBL; L38609; AAC41433.1; -.
PIR; 139712; 139712.
GO; GO:0004553; F:hydrolase activity, hydrolyzing O-glycosyl . . .; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GO; GO:0004553; F:hydrolase activity, hydrolyzing O-glycosyl . . .; IEA. GO; GO:0005975; P:carbohydrate metabolism; IEA. InterPro; IPR0002037; Glyco.hydro 8. InterPro; IPR008928; Glyco.hydro 8. InterPro; IPR008928; Glyco.hydro 8. Pfam; PF01270; Glyco.hydro 8; I. PPINIS; PR00735; GLHYDRLASE8; I.
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       MEDLINE=21608550; PubMed=11743193; Monks D.E., Kitajima J.P., Wood D.W., Setubal J.C., Kaul R., Monks D.E., Kitajima J.P., Wood D.W., Setubal J.C., Kaul R., Mond G.E., Almeida N.F. Jr., Woo L., Chen Y., Zhou Y., Chen L., Wood G.E., Almeida N.F. Jr., Woo L., Chapman P., Clapman P., Kutyavin T., Levy R., Li M.-J., McClelland E., Palmieri A., Raymond C., Rouse G., Saenphimmachak C., Wu Z., Romero P., Gordon D. Zhang S., Yoo H., Tao Y., Biddle P., Jung M., Krespan W., Perry M., Gordon-Kamm B., Liao L., Kim S., Hendrick C., Zhao Z.-Y., Dolan M., Nester E.W.;
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Matthysse A.G., White S., Lightfoot R.;
"Genes required for cellulose synthesis in Agrobacterium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         351 AA; 37337 MW; CBB2E86A3BD1EF64 CRC64;
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100.0%; Score 31; DB 16;
Best Local Similarity 100.0%; Pred. No. 1.3e+02;
Matches 6; Conservative 0; Mismatches 0;
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Q44416;
01-NOV-1996 (TrEMBLrel. 01, C:
01-NOV-1996 (TrEMBLrel. 01, Li
01-OCT-2003 (TrEMBLrel. 25, Li
Endoglucanase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Science 294:2317-2323(2001),
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"Iron induces proliferation and morphogenesis in primmorphs from the marine sponge Suberites domuncula.";
DNA Cell Biol. 21:67-80 (2002)
EMBL, AJ306614; CAC84555.1; -.
GO; GO:0008199; F:ferric iron binding; IEA.
GO; GO:0008199; F:ferric iron binding; IEA.
GO; GO:0008199; P:fornion homeostasis; IEA.
GO; GO:0008199; F:fornion homeostasis; IEA.
GO; GO:0006879; P:fornion homeostasis; IEA.
                                                                                                                                                                                                                                            Kaneko I., Nakamura Y., Sato S., Minamisawa K., Uchiumi I.,
Sasamoto S., Watanabe A., Idesawa K., Iriguchi M., Kawashima K.,
Kobara M., Matsumoto M., Shimpo S., Tsuruoka H., Wada I., Yamada M.,
Tabata S.,
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Bradyrhizobium japon/cum USDA110.";

Bradyrhizobium japon/cum USDA110.";

Bradyrhizobium japon/cum USDA110.";

GO; 0016829; BAC557754.1; --

GO; GO:0016829; F:lyase activity; IEA.

GO; GO:0016829; F:lyase activity; IEA.

InterPro; PRO40360; Gly bleo_dlox.

Ffam; PF00903; Glyoxalase; 1.

Lyase; Complete proteome.

SEQUENCE 131 AA; 15057 MW; 3B9272DDA89C4FC9 CRC64;
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Eukaryota, Metazoa, Porifera, Demospongiae, Tetractinomorpha,
Hadromerida, Suberitidae, Suberites.
Bradyrhizobium japonicum.
Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
Bradyrhizobiaceae; Bradyrhizobium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match 96.8%; Score 30; DB 16; Length 131; Best Local Similarity 83.3%; Pred. No. 77; Matches 5; Conservative 1; Mismatches 0; Indels
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83.3%; Pred. No. 1e+02;
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InterPro; IPR008331; Ferritin Dps.
InterPro; IPR009040; Ferritin_like.
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PROSITE; PS00004; FERRITIN 2; 1.
PROSITE; PS50905; FERRITIN LIKE;
SEQUENCE 170 AA; 19536 MW; E.
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01-JUN-2002 (TrEMBLrel. 21,
01-OCT-2003 (TrEMBLrel. 25,
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Pfam; PF00210; ferritin; 1
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71 IQRGGR 76
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STRAIN=DSM 1617 / P2;

A Charlebois R.L., Singh R.K., Chan-Weiher C.C.-Y., Allard G., Chow C., Confalonieri F., Curtis B., Duguet M., Erauso G., Faguy D.,

A Gaasterland T., Garzett R.A., Gordon P., Jeffries A.C., Kozera C.,

Kushwaha N., Lafleur E., Medina N., Peng X., Penny S.L., She Q.,

St Jean A., Van Der Oost J., Young P., Zivanovic Y., Doolittle W.F.,

R Agan M.A., Sensen C.W.;

T. "Gene content and organization of a 281-kbp contig from the genome of the extremely thermophilic archaeon, Sulfolobus solfataricus P2.";

Submitted (APR-1999) to the EMBL/GenBank/DDBJ databases.

EMBL; Y18930; CAB57758.1;

KW Hypothetical protein.
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Archaea; Crenarchaeota; Thermoprotei; Sulfolobales; Sulfolobaceae;
                                                                                                    Katinka M.D., Dupara S., Cornillot E., Metenier G., Thomarat F., Prensier G., Barbe V., Peyretaillade E., Brottier P., Wincker P., Belbac F., El Alaoui H., Peyret P., Saurin W., Gouy M., Weissenbach J., Vivaries C.P.; "Genome sequence and gene compaction of the eukaryote parasite Encephaliczocon cuniculi."; Mature 414.450-453 (2001). "EMBL; ALS90449; CAD25809.1; -. EMBL; ALS90449; CAD25809.1; -. Pfam; PP00753; lactemase—B; 1. Hypothetical protein. SEQUENCE 730 AA; 82037 MW; 6113332D3450F786 CRC64;
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                                                  STRAIN=GB-M1;
MEDLINE=21576510; Pubmed=11719806;
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01-MAY-2000 (TrEMBLrel. 13,
01-OCT-2003 (TrEMBLrel. 25,
Hypothetical protein.
ORF-C22_010.
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109 IQRGGR 114
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Search completed: April 15, 2004, 10:30:48 Job time : 41 secs

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Claim 1; Fig 15; 60pp; English.
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29-FEB-2000; 2000US-0185336P.
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3 AAY90923 3 AAY90939 4 ABB16230		5 ABR41429 5 AAE36076 2 AAY01198	5 ABU38524 2 AAR15828 5 ABB48976	4 ABG10353 2 AAW72121 2 AAW72044	2 AAW72189 5 AAE17828 6 ABU23814	4 ABB63394 4 ABB64648
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## ALIGNMENTS

Human alphal integrin domain epitope. AAB50043 standard; peptide; 6 AA

antibody; Human, alphal integrin domain, alphalbetal function blocking antibody inflammatory disorder; rheumatoid arthritis; skin condition; asthma; bronchitis; headache; antipyretic; fever; gastrointestinal; vascular disease; autoimmune; respiratory distress syndrome; endotoxin shock syndrome; atherosclerosis.

Koteliansky V; Lobb R, Use of blocking monoclonal antibody capable of binding to an epitope of VLA-1 for treating inflammatory disorders, in particular arthritis.

The present invention relates to the use of an alphalbetal function blocking antibody capable of binding the present epitope of human alphal integrin domain (VLA-1). The antibody of the present invention is useful for treating an inflammatory disorder e.g. rheumatoid arthritis, skin related conditions such as percisals, eczema, burns and dermatitis, asthma, bronchitis, menstrual cramps, tendinitis, bursilis, and the treatment of pain and headaches, or as an antipyretic, for the treatment of fever, gastrointestinal conditions such as inflammatory bowel diseases, Crohn's disease, gastritis and vascular diseases, migraine headaches, periarteritis nodosa, thyroiditis, aplastic anaemia, Hodgkin's

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disease, rheumatic fever, type I diabetes, myasthenia gravis, multiple sclerosis, sarcoidosis, nephrotic syndrome, myocardial ischaemia, allergic rhinitis, respiratory distress syndrome, endotoxin shock syndrome and atheroscleroslerosia
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The invention relates to isolated nucleic acid molecules encoding novel human secreted extracellular matrix proteins (SPs). The polynucleotides and proteins are used to prevent, treat a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep. For example, disorders associated with decreased expression of SPs. The SP polynucleotide or a vector expression them may be administered to treat diseases by gene therapy. Antisense molecules may be administered to down regulate expression. The polynucleotides may also be used as DNA probes in diagnostic assays. The SPs may also be used as DNA probes in diagnostic assays. The SPs may also be used as mitigens to produce antibodies and to identify modulators (agonists and antagonists) of the SPs. The anti-(SP) antibodies and antagonists and antagonists and antagonists and antagonists and immunofactionmune diseases (e.g. HIV (human immunofactions) are amples: immune/autoinmune diseases (e.g. HIV (human immunofactions) virus) infections, anaemia, rheumatoid arthritis and multiple sclerosis, cancers and hyperproliferative disorders (e.g. melanomas, neoplasms of the breast or liver, Sazary syndrome and Gaucher's disease), neurological diseases (e.g. Alzheimer's disease, Parkhinson's disease) cardio-cancers and hyperproliferative disorders (e.g. melanomas, neoplasms of the breast or liver, sazary syndrome and Gaucher's disease) cardio-cancers and hyperproliferative disorders (e.g. melanomas, neoplasms of the breast or liver, sisaase, Parkhinson's disease) cardio-cancers and hyperproliferative uses include wound healing, maintenance of organs before transplantation, support of cell culture of primary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nucleic acid molecules encoding human secreted extracellular matrix proteins, used in preventing, treating or ameliorating a disorder, e.g. Alzheimer's and Parkinson's diseases and cancers.
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26-SEP-2000; 2000US-0235484P.
27-SEP-2000; 2000US-023534P.
27-SEP-2000; 2000US-0235836P.
29-SEP-2000; 2000US-023537P.
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2000US-0246609P
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08-NOV-2000;
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21-SEP-2000;
21-SEP-2000;
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The invention relates to isolated nucleic acid molecules encoding novel human secreted extracellular matrix proteins (SPS). The polynucleotides condition in e.g. and proteins are used to prevent, treat a medical condition in e.g. than an expectation of spaces, cats, dogs, chickens or sheep. For example, disorders associated with decreased expression of SPs. The SP colynucleotide or a vector expressing them may be administered to treat diseases by gene therapy. Antisense molecules may be administered to treat diseases by gene therapy. Antisense molecules may be administered to down regulate expression of SPs by binding with the cells own genes and probes in diagnostic assays. The SPs may also be used as DNA probes in diagnostic assays. The SPs may also be used as antigens to probuse antibodies and to identify modulators (agonists and antagonists) of the SPs. The anti-(SP) antibodies and antagonists and antagonists of control of the SPs. The anti-(SP) antibodies and antagonists and antagonists of the SPs. The anti-(SP) antibodies and antagonists and antagonists of control of the special of the SPs in samples. The disorders include for campers and hyperproliferative disorders (e.g. melanomas, neoplasms of cancers and hyperproliferative disorders (e.g. melanomas, neoplasms of disease (e.g. Alzheimer's disease, Parkinson's disease), neurological diseases (e.g. Alzheimer's disease, Parkinson's disease), neurological diseases (e.g. corneal infections, viruses and fungi and ocular disorders (e.g. corneal infections). Other uses include wound healing, maintenance of organs before transplantation, support of cell culture of primary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Nucleic acid molecules encoding human secreted extracellular matrix proteins, used in preventing, treating or ameliorating a disorder, eAlzheimer's and Parkinson's diseases and cancers.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rosen CA, Barash SC, Ruben SM;
                                                                                     2000US-0249214P

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N-PSDB; AAS31365.
17-NOV-2000; 20
17-NOV-2000; 2
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Gaps

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Query Match 100.0%; Score 31; DB 4; Length 148; Best Local Similarity 100.0%; Pred. No. 2.1e+02; Matches 6; Conservative 0; Mismatches 0; Indels

VORGGR 121 9

116

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01-NOV-2000; 2000US-0244617P.
17-NOV-2000; 2000US-0249299P.
08-DEC-2000; 2000US-0251868P.
08-DEC-2000; 2000US-0251868P.
                                                                    Rosen CA, Ruben SM,
                                                                                  2002-470713/50
                                         ROSEN C A.
RUBEN S M.
BARASH S C.
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Best Local Similarity
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                                                                                  WPI; 2002-470713,
N-PSDB; ABQ66529
                                                                                                                                                                                                                                                                           Sequence 148 AA;
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                                         (ROSE/) F
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                                                                                                                                                                                                                                                                                                                                                                          Human; nootropic; neuroprotective; cytostatic; dermatological; virucide; immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary; antiparkinsonian; antisickling; antianaemic; antiarthritic; cancer; antirheumatic; hepatotropic; cerebroprotective; antiinflammatory; antiallergic; antidiabetic; antiulcer; anticonvulsant; antiingal; antiparasitic; cardiant; immune disorder; cardiovascular disorder; neurological disease; infection; nephrotropic; gene therapy; vaccine.
                          ABP47854 standard; protein; 148 AA
                                                                   Human polypeptide SEQ ID NO 284.
                                                                                                                                                                                                                                                                                                                                      2000US-0229287P.
2000US-0229343P.
2000US-0229344P.
2000US-0229345P.
2000US-0229509P.
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2000US-0220963P.
2000US-0220964P.
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                                                    23-AUG-2002 (first entry)
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21-SEP-2000;
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02-OCT-2000;
02-OCT-2000;
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                                       ABP47854;
                  RESULT 4
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The nucleic acids, proteins, antibodies and (ant)agonists are useful in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast and ovarian cancer and other cancers of the adrenal gland, bone, bone marrow, breast, gascrointestinal tract, liver, lung, or urogenital; (b) immune disorders e.g. Addison's disease, allergies, autoimmune haemolytric anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid arthritis and ulcerative colitis; (c) cardiovescular disorders such as myocardial ischemnias; (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and epilepsy; and (f) infectious diseases such as viral, bacterial, fungal and parasitic infections. Noter The sequence data for this patent did not form part of the printed specification, but was obtained in electronic form part of from USPTO at sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Extracellular matrix protein, cytostatic; antibacterial; virucide; neuroprotective; gynaecological; gastrointestinal-Gen; cardiant; cardiovascular-Gen; nephrotropic; antibinflammatory; muscular-Gen; respiratory-Gen; immunosuppressive; cerebroprotective; vasotropic; nootropic; antiallergic; cancer; bacterial infection; viral infection; neural disorder; immune system disorder; blood disorder; miscular disorder; reproductive disorder; gastrointestinal disorder; pulmonary disorder; cardiovascular disorder; renal disorder; inflammatory disorder; proliferative disorder; Human.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human extracellular matrix protein from gene 9.
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2000US-0209467P.
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2000US-0215135P.
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2000US-0224519P
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Best Local Similarity 100...
6, Conservative
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                                                                                                                                                                                                                                                                                                             Sequence 148 AA;
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16-MAR-2000;
17-MAR-2000;
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24-FEB-2000;
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                                                                                   04 FEB-2000; 2000US-0180628P.
28-JUN-2000; 2000US-0118068P.
07-JUL-2000; 2000US-021686P.
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11-JUL-2000; 2000US-021486P.
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2000US-0236802P
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(RUBE/) RUBEN S M.
(BARA/) BARASH S C.
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Claim 11; SEQ ID NO 284; 235pp; English
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2000US-024921P
2000US-024921P
2000US-024924P
2000US-024924P
2000US-0249245P
2000US-0249265P
2000US-0249265P
2000US-0249265P
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2000US-0250160P.
2000US-0251030P.
2000US-025198BP.
2000US-025198BP.
2000US-025149P.
2000US-025146BP.
2000US-025186BP.
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2000US-025186BP.
2000US-025186BP.
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2000US-0246610P.
2000US-0246611P.
2000US-0249207P.
2000US-0249210P.
2000US-0249210P.
2000US-0249211P.
2000US-0249211P.
2000US-0249212P.
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N-PSDB; ADC10551.
08-NOV-2000;

17-NOV-2000;

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New isolated nucleic acids and polypeptides, useful for diagnosing, treating, and/or preventing disorders, such as cancer, infections, cardiovascular and inflammatory diseases.

The invention relates to an isolated nucleic acid molecule (cDNA)

encoding a human extracellular matrix protein, representing one of 161

covering a human extracellular matrix protein, representing one of 161

covering the protein, the extracellular matrix proteins (including their fragments, epitopes and homologues), an isolated antibody that binds specifically to the protein, diagnosing a pathological condition or susceptibility to a pathological condition (comprising determining the presence or absence of amutation in the nucleic acid and diagnosing a condition based on the presence or absence of the mutation), diagnosing a pathological condition or susceptibility to a pathological condition (comprising determining the presence or amount of expression of the protein in a bological sample and diagnosing a condition based on the protein in a bological sample and diagnosing a condition based on the protein in a mammalian subject, identifying a binding partner to the

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2000US-0225758P

2000US-0225758P

2000US-022668P

2000US-022668P

2000US-022668P

2000US-02268P

2000US-02298P

2000US-02298P

2000US-02298P

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2000US-02398P

2000US-023124P

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2000US-023124P
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2000US-0232081P.
2000US-0231968P.
2000US-0232397P.
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2000US-0233065P.
2000US-0234223P.
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2000US-0235836P.
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2000US-0236370P.
2000US-0236802P.
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2000US-0241808F.
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2000US-0246532P
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29-SEP-2000;
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29-SEP-2000;
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protein, the gene corresponding to the cDNA sequence, and identifying an activity in a biological assay (comprising expressing the nucleic acid in a sell, isolating the supernatant, detecting an activity in a biological assay and identifying the protein in the supernatant having the activity). The nucleic acids and proteins display the following activities Cytostatic, antibacterial, virucide, Neuroprotective, Gynaecological, Gastrointestinal-Gen, Cardiant, Cardiovascular-Gen, Nephrotropic, Antinflammatory, Muscular-Gen, Respiratory-Gen,
                                                                                                                                                                                                                                                                                                                                                 Extracellular matrix protein; cytostatic; antibacterial; virucide; neuroprotective; gynaecological; gastrointestinal-Gen; cardiant; cardiovascular-Gen; nephrotropic; antibiflammatory; muscular-Gen; respiratory-Gen; immunosuppressive; cerebroprotective; vasotropic; nootropic; antiallergic; cancer; bacterial infection; viral infection; neural disorder; immune system disorder; blood disorder; muscular disorder; cardiovascular disorder; cardiovascular disorder; cardiovascular disorder; renal disorder; inflammatory disorder; proliferative disorder; Human.
                                                                                                                                          Gaps
                                                                                                             100.0%; Score 31; DB 7; Length 148; 100.0%; Pred. No. 2.1e+02; ive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                             Human protein from extracellular matrix gene 9 #2.
                                                                                                                                                                                                                                                  ADC10976 standard; protein; 148 AA
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16-MAR-2000; 2000US-0189874F.

17-MAR-2000; 2000US-0190756F.

19-MAY-2000; 2000US-0205515F.

19-MAY-2000; 2000US-0205515F.

28-JUN-2000; 2000US-020547F.

28-JUN-2000; 2000US-021515F.

30-JUN-2000; 2000US-021515F.

07-JUL-2000; 2000US-021515F.
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26-JUL-2000; 2000US-0220964P.
14-AUG-2000; 2000US-024518P.
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14-AUG-2000; 2000US-0225213P.
14-AUG-2000; 2000US-0225214P.
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2000US-0180628P.
2000US-0184664P.
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11-JUL-2000; 2000US-0217496P.
14-JUL-2000; 2000US-0218290P.
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                                                                                                             Query Match
Best Local Similarity 100.
Matches 6; Conservative
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Nephrotropic, Antiinflammatory, Muscular-Gen, Respiratory-Gen,

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The invention relates to an isolated mucleic acid molecule (CDNA)

encoding a human extracellular matrix protein, representing one of 161

novel genes. Also included are recombinant vectors, host cells

(expressing the protein), the extracellular matrix proteins (including their fragments, epitopes and homologues), an isolated antibody that binds specifically to the protein, diagnosing a pathological condition or susceptibility to a pathological condition in the nucleic acid and diagnosing a pathological condition or susceptibility to a pathological condition or susceptibility to a pathological condition or susceptibility to a pathological condition or pathological condition or susceptibility to a pathological condition or susceptibility to a pathological condition or pathological condition or pathological condition based on the protein in a biological sample and diagnosing a condition based on the protein or amount of expression of the protein), preventing or amelicrating a medical condition by administering the nucleic acid or protein to a mammalian subject, identifying a binding partner to the protein to a mammalian subject, identifying a binding partner to the protein, the gene corresponding to the cDNA sequence, and identifying an activity in a biological assay (comprising expressing the nucleic acid in a stivity and biological assay (comprising expressing the activity). The nucleic acids and proteins display the following activity). The nucleic acids and proteins display the following activities Cytostatic, antibacterial, Virucide, Neuroprotective, Gynaecological, Gastrointestinal-Gen, Cardiant, Cardiovascular-Gen,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated nucleic acids and polypeptides, useful for diagnosing, treating, and/or preventing disorders, such as cancer, infections, cardiovascular and inflammatory diseases.
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                                                                                                    2000US-0249209P.
2000US-0249210P.
2000US-0249211P.
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2000US-0249213P.
2000US-0249214P.
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N-PSDB; ADC10711.
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17-NOV-2000;
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17-NOV-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New nucleic acid comprising a sequence of LuFad3 or Conlinin 1 or 2 from the genus Linum, useful for seed-specific modification of fatty acid and protein compositions in plant seeds.
                                   Gaps
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           Length 148;
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                                                                                                                                                                                                                                               Flax; Conlinin; omega-3 desaturase; LuFad3; plant.
                                                                                                                                                                                                                                                                                                                           23. .169
/note= "Mature Conlinin protein"
153
          100.0%; Score 31; DB 7; 100.0%; Pred. No. 2.1e+02; ive 0; Mismatches 0;
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/label= Signal_peptide
                                                                                                                                                                                                                                                                                                                                                                            /note= "Encoded by CC'
                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                               AAE36077 standard; protein; 169 AA.
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                                                                                                                                                                                                (first entry)
Truksa M, Hu Z;
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Best Local Similarity
Matches 6; Conserv
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                                                                                                                                                                                                                                                                                                            Peptide
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RESULT 9

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AAE33535 standard; protein; 192 AA
                                                                        (first entry)
                                                          (revised)
                                                       23-OCT-2003
                                                                       02-APR-2003
                           AAE33535;
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Rat-human alpha 1-I domain fusion protein, RdeltaH.

Human; very late activation antigen; VLA-1; betal containing integrin; immunological disorder; inflammatory disorder; skin related condition; psoriasis; ezcame; burn; dermatitis; respiratory distress syndrome; fibrosis; allergic rhinitis; asthma; bronchitis; tendonitis; bursitis; fever; migraine headache; inflammatory bowel disease; Crohn's disease; irritable bowel syndrome; colitis; colorectal cancer; vascular disease; atherosclerosis; thyroiditis; aplastic anemaia; periarteritis nodosa; gastritis; Hodgkin's disease; rheumatic fever; autoimmune disease; osteoarthritis; type I diabetes; myasthenia gravis; rheumatoid arthritis; systemic lupus erythematosus; multiple sclerosis; nephrotic syndrome; renal failure; sarcoidosis; Behcet's syndrome; gingivitis; polymyositis; hypersensitivity; graft rejection; transplant rejection; conjunctivitis; graft versus host disease; myocardial ischaemia; fusion protein; rat.

Homo sapiens Rattus sp. Chimeric.

WO200283854-A2.

24-OCT-2002

12-APR-2002; 2002WO-US011521

13-APR-2001; 2001US-0283794P.

(BIOJ ) BIOGEN INC.

Karpusas M; Saldanha JW, Lyne PD, Garber EA,

WPI; 2003-093009/08

New anti-VLA-1 antibodies are useful for preventing or treating VLA-1-mediated immunological or inflammatory disorders, e.g. psoriasis, eczema, burns, dermatitis, and abnormal proliferation of hair follicle cells or fibrosis

Example 24; Page 93; 248pp; English.

The present invention relates to novel antibodies that specifically bind to very late activation (VLA-1; betal containing integrins) antigens and methods of using these antibodies to treat immunological disorders. The methods of using these antibodies to treat immunological disorders. The methods of using these antibodies to treat informations VLA-1 antibodies are useful for preventing or treating VLA-1 antibodies are useful for preventing or treating VLA-1 antibodies or inflammatory disorders such as skin related conditions (e.g. postassis, eczema, burns, desmathis and abnormal proliferation of hair follicle cells), fibrosis (e.g. kidney or lung fibrosis), allergic rhinitis, respiratory distress syndrome, asthma, proliferation conditions (e.g. inflammatory bowel disease, Crohn's disease, characteritis and colorectal cancer), restingly intrins, systemic lupus exythemmetory bowel disease, rheumatoid generateritis nodosa, Hoddyin's disease, rheumatic fever, osteoarthritis, systemic lupus exythematosus and multiple sclerosis), renal failure, sarcoidosis, nephrotic syndrome, Beheet's syndrome, gingivitis, polymyositis, hypersensitivity (e.g. delayed type hypersensitivity or immediate hypersensitivity, graft and transplant relations, graft versus host disease, conjunctivitis, swelling occurring after injury, myocardial ischaemia or endotoxin shock syndrome. The present sequence is the exemplification of the invention. (Updated on 23-OCT-2003 to standardise Dyscomentation of the invention. (Updated on 23-OCT-2003 to 

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0
                                                                     Gaps
                                                                     0
                                        Length 192;
                                      100.0%; Score 31; DB 6; Length 192
100.0%; Pred. No. 2.7e+02;
ive 0; Mismatches 0; Indels
                                      Query Match
Best Local Similarity 100.
Matches 6; Conservative
             Sequence 192 AA;
XX SS
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73 VORGGR 78 1 VORGGR 6 ò g AAE33537 standard; protein; 192 AA.

AAE33537;

(first entry) 02-APR-2003 Human alpha 1-I domain protein #1.

Human; very late activation antigen; VLA-1; betal containing integrin; immunological disorder; inflammatory disorder; skin related condition; psorials; eczema, burn; dermatitis; respiratory distress syndrome; fibrosis; allergic rhinitis; aschma; bronchitis; tendonitis; bursitis; fever; migraine headache; inflammatory bowel disease; croin's disease; irritable bowel syndrome; colitis; colorectal cancer; vascular disease; atherosclerosis; thyroiditis; aplastic anaemia; periarteritis nodosa; gastritis; Hodgkin's disease; rheumatic fever; autoimmune disease; systemic lupus erythematosus; multiple sclerosis; rheumatoid arthritis; systemic lupus erythematosus; multiple sclerosis; nephrotic syndrome; renal failure; sarcoidosis; Behcet's syndrome; gingivitis; polymyostics; hypersensitivity; graft rejection; transplant rejection; conjunctivitis; graft versus host disease; myocardial ischaemia; alpha 1-1 protein. 

Homo sapiens.

WO200283854-A2.

24-OCT-2002.

12-APR-2002; 2002WO-US011521.

13-APR-2001; 2001US-0283794P. 06-JUL-2001; 2001US-0303689P.

(BIOJ ) BIOGEN INC.

Karpusas M; Saldanha JW, Lyne PD, Garber EA,

WPI; 2003-093009/08.

New anti-VLA-1 antibodies are useful for preventing or treating VLA-1-mediated immunological or inflammatory disorders, e.g. psoriasis, eczema, burns, dermatitis, and abnormal proliferation of hair follicle cells or fibrosis.

Example 24; Page 94; 248pp; English.

The present invention relates to novel antibodies that specifically bind to very late activation (VLA-1, betal containing integrins) antigens and methods of using these antibodies to treat immunological disorders. The mediated immunological or inflammatory disorders such as skin related conditions (e.g. psoriasis, eczema, burns, dermatitis and abnormal proliferation of hair follicle cells), fibrosis (e.g. kidney or lung fibrosis), allergic rhinitis, respiratory distress syndrome, asthma, bronchitis, tendonitis, bursitis, fever, migraine headaches, gastrojantisticals (e.g. inflammatory bowel disease, Crohn's disease, gastritis, irritable bowel syndrome, colitis and colorectal cancer), vascullar diseases (e.g. atherosoclerosis), thyroiditis, aplastic anaemia, periarteritis nodosa, Hodgkin's disease, rheumatic fever, osteoarthritis,

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autoimmune diseases (e.g. type I diabetes, myasthenia gravis, rheumatoid arthritis, systemic lupus erythematosus and multiple sclerosis), renal failure, sarcoidosis, nephrotic syndrome, Behcet's syndrome, giangivitis, polymyositis, hypersensitivity (e.g. delayed type hypersensitivity) immediate hypersensitivity), graft and transplant rejections, graft versus host disease, conjunctivitis, swelling occurring after injury, myocardial ischaemia or endotoxan shock syndrome. The present sequence is human 1-I domain protein. This sequence is used in the exemplification of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; integrin alpha subunit; A domain; CD49a; integrin beta subunit; A-like domain; inflammatory disorder; skeletal muscle injury; restenosis; ischaemia-reperfusion injury; immune complex; parasitic disease; Alpha 1; antiinflammatory; vasotropic; antiparasitic; vulnerary; gene therapy.
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iive 0; Mismatches 0;
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11-JAN-2001; 2001US-00758493.
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                                                                                                                                                                                                                                                                                                                                                                                                       Human; integrin alpha subunit; A domain; CD49a; integrin beta subunit; A 11ke domain; inflammatory disorder; skeletal muscle injury; restencis; ischaemia-reperfusion injury; immune complex; parasitic disease; antinflammatory; vasotropic; antiparasitic; vulnerary; gene therapy;
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two-hybrid or three-hybrid assays. This sequence represents the integrin alpha subunit Alpha 1 (CD49a) A domain
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100.0%; Pred. No. 2.8e+02;
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11-JAN-2001; 2001US-00758493.
13-MAR-2001; 2001US-00805354.
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electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                        1 VQRGGR 6
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                                            Sequence 206
                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
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Matches
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                                                                                                                                                                                                                                 The invention relates to isolated polymuclectide (I) and polypeptide (II) sequences. (I) is useful as hybridisation probes, polymerase chain reaction (PCN) primers, ollogomers, and for chomosowe and gene mapping, and in recombinant production of (II). The polymuclectides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (I) is useful in gene therapy techniques to restore normal certifyty of (II) or to treat disease states involving (II). (II) is useful for generating antibodies against it, detecting or quantitating a polypeptide in tissue, as molecular weight markers and as a food supplement. (II) and its binding partners are useful in medical imaging of sites expressing (II). (I) and (II) are useful for treating disorders involving aberrant protein expression or biological activity. The polypeptide and polymuclectide sequences have applications in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and amino acid sequences of the invention. Note: The sequence data for this amino acid sequences of the invention. Note: The sequence for this patent did not appear in the printed specification, but was obtained in
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                                                                                                                        Gaps
two-hybrid or three-hybrid assays. This sequence represents a human integrin appha subunit Alpha 1 (CDQsa) variant A domain. Note: This variant sequence is not featured in the specification but has been derived from the wild-type protein shown in AAU76851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated polynucleotide and encoded polypeptides, useful in diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits and to assess biodiversity.
                                                                                                                                                                                                                                                                                                                                                     Human; chromosome mapping; gene mapping; gene therapy; forensic;
food supplement; medical imaging; diagnostic; genetic disorder.
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                                                                                           100.0%; Score 31; DB 5; Length 195; 100.0%; Pred. No. 2.8e+02;
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                                                                                                                                                                                                                                                                                                                          Novel human diagnostic protein #29226.
                                                                                                                                                                                                                                           ABG29235 standard; protein; 206 AA.
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2000US-00649167
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                                                                  Sequence 195 AA;
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23-AUG-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; alphal integrin domain; alphalbetal function blocking antibody; inflammatory disorder; rheumatoid arthritis; skin condition; asthma; bronchlitis; headache; antipyretic; fever; gastrointestinal; vascular disease; autoimmune; respiratory distress syndrome; endotoxin shock syndrome; atherosclerosis.
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100.0%; Score 31; DB 4; I 100.0%; Pred. No. 2.9e+02; ive 0; Mismatches 0;
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29-FEB-2000; 2000US-0185336P
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                                     Local Similarity
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91

VORGGR 96

AAE33540 standard; protein; 214 AA

AAE33540;

(first entry) 02-APR-2003

Human alpha 1-I domain protein #2.

Human; very late activation antigen; VLA-1; betal containing integrin; immunological disorder; inflammatory disorder; skin related condition; psoriasis; ezema, burn; dermatitis; respiratory distress syndrome; fibrosis; allergic rhinitis; asthma; bronchitis; tendonitis; bursitis; fever; migraine headache; inflammatory bowel disease; Crohn's disease; irritable bowel syndrome; colitis; colorectal cancer; vascular disease; atherosclerosis; thyroiditis; aplastic anaemia; periarteritis nodosa; gastritis; Hodgkin's disease; rheumatic fever; autoimmune disease; osteoarthritis; type I diabetes; myasthenia gravis; rheumatoid arthritis; systemic lupus erythematosus; multiple sclerosis; nephrotic syndrome; renal failure; sarcoidosis; Behcet's syndrome; gingivitis; polymyositis; praft versus host disease; myocardial ischaemia; alpha 1-I protein.

Homo sapiens

WO200283854-A2.

24-OCT-2002,

12-APR-2002; 2002WO-US011521.

13-APR-2001; 2001US-0283794P. 06-JUL-2001; 2001US-0303689P.

(BIOJ ) BIOGEN INC.

Saldanha JW, Karpusas M; Garber EA, Lyne PD,

WPI; 2003-093009/08.

New anti-VLA-1 antibodies are useful for preventing or treating VLA-1-mediated immunological or inflammatory disorders, e.g. psoriasis, eczema, burns, dermatitis, and abnormal proliferation of hair follicle cells or burns, de fibrosis.

Example 18; Fig 12; 248pp; English.

The present invention relates to novel antibodies that specifically bind to very late activation (VLA-1; betal containing integrins) antigens and methods of using these antibodies to treat immunological disorders. The methods of using these antibodies to treat immunological disorders. The method immunological or inflammatory disorders such as skin related conditions (e.g. portasis, eczema, burns, dermatitis and abnormal proliferation of hair follicle cells), fibrosis (e.g. kidney or lung fibrosis), allergic rhinitis, respiratory distress syndrome, asthma, bronchitis, tendonitis, bursitis, fever, migraine headaches, gastro-intestinal conditions (e.g. inflammatory bowel disease, Crohn's disease, conditions (e.g. inflammatory bowel disease, Crohn's disease, gastritis, irritable bowel syndrome, colitis and colorectal cancer), vascular diseases (e.g. type I diabetes, myasthenia gravis, rheumatoid autoimmune diseases (e.g. type I diabetes, myasthenia gravis, rheumatoid arthritis, systemic lugus erythematosus and multiple sclerosis), renal cancentis, hypersensitivity (e.g. dalayed type hypersensitivity or immediate hypersensitivity), graft and transplant rejections, graft versus host disease, conjunctivitis, swelling occurring after injury, AAB33540
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AAB33540
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is Of myocardial ischaemia or endotoxin shock syndrome. The present sequence human 1-1 domain protein. This sequence is used in the exemplification the invention 883333

Sequence 214 AA;

Gaps o. Query Match
100.0%; Score 31; DB 6; Length 214;
Best Local Similarity 100.0%; Pred. No. 3e+02;
Matches 6; Conservative 0; Mismatches 0; Indels

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Sequence

Sequence 24, Appl Sequence 24, Appl Sequence 24, Appl Sequence 56, Appl Sequence 56, Appl Sequence 56, Appl Sequence 56, Appl Sequence 164464, Sequence 164464, Sequence 282180, Sequence 40, Appl

Sequence Seq

Sequence 40, A Sequence 40, A Sequence 40, A Sequence 27571 Sequence 2, Ap

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Sequence 8, Application US/0996738
Fatent No. US20020146417A1
GENERAL INFORMATION:
APPLICANT: Blogen, Inc.
APPLICANT: Gotwals, Philip
APPLICANT: Gotwals, Philip
APPLICANT: Kotellansky, Victor
TILLS OF INVENTION: Method for the Treatment of Inflammatory
TITLE OF INVENTION: Disorders
FILE REFERENCE: A076PCT
CURRENT FILING DATE: 2001-11-30
FRICE APPLICATION NUMBER: 60/185336
FRICE APPLICATION NUMBER: 60/185336
FRICE APPLICATION NUMBER: 60/185336
FRICE APPLICATION NUMBER: 60/18536
FRICE APPLICATION NUMBER: 60/18536
FRICE APPLICATION NUMBER: 60/18536
FRICE FILING DATE: 1999-06-01
MUMBER OF SEQ ID NOS: 9
SOFTWARE: FastSEQ for Windows Version 4.0
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2 US-10-625-260-6
2 US-10-625-260-9
3 US-10-625-260-9
3 US-10-625-260-9
3 US-10-625-260-9
5 US-10-626-68-9
5 US-10-369-493-14140
5 US-10-369-493-15276
5 US-10-369-493-15177
5 US-10-369-493-15170
2 US-10-424-599-25170
3 US-10-027-801-24
4 US-10-027-801-56
4 US-10-27-801-56
4 US-10-27-801-68
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5 US-10-424-599-282180
6 US-10-237-551-40
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ORGANISM: Homo Sapiens
US-09-996-738-8
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    1 VORGGR
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US-09-996-738-8
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US-09-996-738-9
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Sequence 9, Appli
Sequence 8, Appli
Sequence 10, Appl
Sequence 10, Appl
Sequence 284, Appl
Sequence 284, Appl
Sequence 444, Appl
Sequence 444, Appl
Sequence 57, Appli
Sequence 57, Appli
Sequence 57, Appli
Sequence 57, Appli
Sequence 5, Appli
Sequence 5, Appli
Sequence 5, Appli
                                                                                                 April 15, 2004, 10:29:26 ; Search time 42 Seconds (without alignments) 39.382 Million cell updates/sec
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1: /cgn2_6/prodata/2/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/prodata/2/pubpaa/PCT_NEW PUB.pep:*
3: /cgn2_6/prodata/2/pubpaa/PCT_NEW PUB.pep:*
4: /cgn2_6/prodata/2/pubpaa/US06_PUBCOMB.pep:*
5: /cgn2_6/prodata/2/pubpaa/US06_PUBCOMB.pep:*
6: /cgn2_6/prodata/2/pubpaa/US06_PUBCOMB.pep:*
7: /cgn2_6/prodata/2/pubpaa/US08_NEW PUB.pep:*
8: /cgn2_6/prodata/2/pubpaa/US08_NEW PUB.pep:*
9: /cgn2_6/prodata/2/pubpaa/US09_PUBCOMB.pep:*
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15: /cgn2_6/prodata/2/pubpaa/US10_PUBCOMB.pep:*
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17: /cgn2_6/prodata/2/pubpaa/US10_NEW_PUB.pep:*
18: /cgn2_6/prodata/2/pubpaa/US10_NEW_PUB.pep:*
18: /cgn2_6/prodata/2/pubpaa/US60_PUBCOMB.pep:*
              GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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US-10-625-260-8
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US-09-764-870-444
US-10-125-540-444
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US-10-145-288-5
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                                                                                                                                                                                                                                                                   1124875 seqs, 275673149 residues
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Maximum Match 100%
Listing first 45 summaries
                                                                        - protein search, using sw model
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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Match Length
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Perfect score:
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                               APPLICANT: Koteliansky, Victor
TITLE OF INVENTION: Method for the Treatment of Fibrosis
FILE REPERRORE: A073US
CURRENT APPLICATION NUMBER: US/10/061,658
CURRENT APPLICATION NUMBER: US/10/061,658
FRICK APPLICATION NUMBER: 60/137,214
FRICK APPLICATION NUMBER: 60/137,214
FRICK APPLICATION NUMBER: 60/130,847
FRICK APPLICATION NUMBER: 60/130,847
FRICK FILING DATE: 1999-04-22
NUMBER OF SEC ID NOS: 10
SEC ID NOS: 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 31; DB 13; Length 6; 100.0%; Pred. No. 1e+06; ive 0; Mismatches 0; Indels
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APPLICANT: Biogen, Inc.
APPLICANT: Gotwals, Philip
APPLICANT: Gotwals, Philip
APPLICANT: Kotellansky, Victor
TITLE OF INVENTION: Method for the Treatment of Fibrosis
TITLE OF INVENTION: Method for the Treatment of Fibrosis
FILE REFERENCE: A073US
CURRENT FILING DATE: 2003-07-22
PRIOR FILING DATE: 1999-06-01
PRIOR FILING DATE: 1999-06-01
PRIOR FILING DATE: 1999-04-22
NUMBER OF SEQ ID NOS: 10
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Publication No. US20020182213A1
GENERAL INFORMATION:
APPLICANT: Biogen, Inc.
APPLICANT: Gotwals, Philip
APPLICANT: Koteliansky, Victor
TITLE OF INVENTION: Method for the Treatment of Fibrosis
FILE REFERENCE: A073US
CURRENT FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: G0/137,214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-625-260-10; Sequence 10, Application US/10625260; Publication No. US20040037827A1; GENERAL INFORMATION:
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ORGANISM: Homo sapien
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; ORGANISM: homo sapien
US-10-625-260-10
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Best Local Similarity
Matches 6; Conserv
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US-10-061-658-10
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                                                                                 APPLICANT: Biogen, Inc.
APPLICANT: Biogen, Inc.
APPLICANT: Biogen, Inc.
APPLICANT: De Fougerolles, Antonin
APPLICANT: Gowals, Philip
APPLICANT: Gobb, Roy
TITLE OF INVENTION: Method for the Treatment of Inflammatory;
TITLE OF INVENTION: Disorders
FILE REFERENCE: A076PCT
CURRENT PAPLICATION NUMBER: US/09/996,738
CURRENT FILING DATE: 2001-11-30
PRIOR FILING DATE: 2000-02-29
PRIOR APPLICATION NUMBER: 60/18536
PRIOR FILING DATE: 1999-06-01
PRIOR FILING DATE: 1999-06-01
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-120-20-20.

| Sequence 8, Application US/10625260 |
| Publication No. US20040037827A1 |
| GENERAL INFORMATION: |
| APPLICANT: Biogen, Inc. |
| APPLICANT: Bocwals, Philip |
| APPLICANT: Gotwals, Philip |
| APPLICANT: Gotwals, Philip |
| APPLICANT: Koteliansky, Victor |
| ITLE OF INVENTION: Method for the Treatment of Fibrosis |
| FILE REFERENCE: A073US |
| CURRENT APPLICATION NUMBER: US/10/625,260 |
| CURRENT APPLICATION NUMBER: 60/137,214 |
| PRIOR FILING DATE: 1999-06-01 |
| PRIOR FILING DATE: 1999-04-02 |
| NUMBER OF SEQ ID NOS: 10 |
| SOFTWARE: FastSEO for Windows Version 4.0 |
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Sequence 9, Application US/0996738
Patent No. US20020146417A1
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Publication No. US20020182213A1
GENERAL INFORMATION:
APPLICANT: Biogen, Inc.
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Best Local Similarity 100.
Matches 6; Conservative
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CRGANISM: Homo Sapiens
US-09-996-738-9
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ORGANISM: Homo sapien
US-10-625-260-8
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US-10-625-260-8
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US-10-061-658-8
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Sequence 444, Application US/10125540

Publication No. US2003005987541

GENERAL INFORMATION:

APPLICANT: Rosen et al.

TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

FILE REFERENCE: PTZ14C1

CURRENT FILICATION NUMBER: US/10/125,540

CURRENT FILICATION TOWNER: US/10/125,540

WHAREN FOR APPLICATION TOWNER: 2002-04-19

PRIOR APPLICATION TEMOVED - See File Wrapper or Palm

NUMBER OF SEQ ID NOS: 646

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 444
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                                                                                                     US-10-125-540-284

Sequence 284, Application US/10125540

Publication No. US20030059875A1

GENERAL INFORMATION:

APPLICANT: Rosen et al.

TITLE OF INVENTION:

TOTALCANT: REPLICANTON:

TOTALCANT: REPLICANTON: Nucleic Acids, Proteins, and Antibodies

TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

CURRENT APPLICATION NUMBER: US/10/125,540

CURRENT FILING DATE: 2002-04-19

Prior Application removed - See File Wrapper or Palm

NUMBER OF SEO ID NOS: 646

SOFTWARE: PatentIn Ver. 2.0
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APPLICANT: QUIV, Xiao
APPLICANT: TRUSKA, Martin
APPLICANT: HU, Zhiyuan
ITILE OF INVENTION: Flax (Linum usitatissimum L.)
TITLE OF INVENTION: Seed-Specific Promoters
FILE REFERENCE: BNZ-005
CURRENT APPLICATION NUMBER: US/10/165,289A
CURRENT FILING DATE: 2002-06-06
PRIOR APPLICATION NUMBER: 60/295823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 4, Application US/10165289A Publication No. US20030159174A1 GENERAL INFORMATION:
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Best Local Similarity 100.
Matches 6; Conservative
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/ ORGANISM: Homo sapiens
US-10-125-540-284
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ORGANISM: Homo sapiens
             116 VQRGGR 121
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US-10-125-540-444
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LENGTH: 148
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Patent No. US202042386A1

GENERAL INFORMATION:

APPLICANT: Rosen et al.

TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

CURRENT FILING DATE: 2001-01-17

Frick application data removed - consult PALM or file wrapper

NUMBER OF SEQ ID NOS: 646

SCOTWARE PatentIn Ver. 2.0

SEQ ID NO 284

LENGTH: 148
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Patent No. US20020042386A1

GENERAL INFORMATION:

APPLICANT: Rosen et al.

TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PTZ14

CURRENT APPLICATION NUMBER: US/09/764,870

CURRENT FILING DATE: 2001-01-17

Prior application data removed - consult PALM or file wrapper

NUMBER OF SEQ ID NOSS: 646

SOFTHARE: PatentIN Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%; Score 31; DB 9; Length 148; 100.0%; Pred. No. 1.9e+02; tive 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                         100.0%; Score 31; DB 13; Length 7; 100.0%; Pred. No. 1e+06;
                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                          0; Mismatches
PRIOR FILING DATE: 1999-06-01
PRIOR APPLICATION NUMBER: 60/130,847
PRIOR FILING DATE: 1999-04-22
NUMBER OF SEQ ID NOS: 10
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 10
                                                                                                                                                                                                                                                                      Query Match
Best Local Similarity 100.
Matches 6; Conservative
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Best Local Similarity 100.
Matches 6; Conservative
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CORGANISM: Homo sapiens
US-09-764-870-284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; ORGANISM: Homo sapiens
US-09-764-870-444
                                                                                                                                                                           ; TYPE: PRT
; ORGANISM: homo sapien
US-10-061-658-10
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US-09-764-870-444
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US-09-764-870-284
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LENGTH: 148
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; ORGANISM: Homo sapiens
US-09-805-354-5
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CORGANISM: Homo Sapiens
US-09-996-738-6
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Matches 6; Conserv
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   ; TYPE: PRT
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Sequence 5, Application US/09805354;
Publication No. US20030078375A1
GENERAL INFORMATION:
APPLICAMT: Armaouc, M. Amin
APPLICAMT: Xiong, Jian-Ping
TITLE OF INVENTION: HIGH AFFINITY INTEGRIN POLYPEPTIDES AND USES THEREOF
FILE REFERENCE: 00786-53601
CURRENT PILING DATE: 2002-06-04
PRIOR PRIOR PILING DATE: 2001-01-11
PRIOR FILING DATE: 2001-01-11
PRIOR FILING DATE: 2000-07-31
NUMBER OF SEQ ID NOS: 20
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                                                                                                                                                                                                                                                                                                           100.0%; Score 31; DB 14; Length 169; 100.0%; Pred. No. 2.1e+02;
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Publication No. US20040038325A1

GENERAL INPORMATION:

APPLICANT: PHELPS, CHRISTOPHER BENJAMIN

APPLICANT: PAGAN, RICHARD JOSEPH

APPLICANT: GUTTERIDGE, ALEX

TITLE OF INVENTION: ADHESION MOLECULES

FILE REFERENCE: 674575-2001

CURRENT APPLICATION NUMBER: US/10/346,863

CURRENT FILING DATE: 2001-07-24

PRIOR FILING DATE: 2001-07-24

PRIOR FILING DATE: 2001-07-24

PRIOR FILING DATE: 2000-07-24

PRIOR FILING DATE: 2000-07-24

PRIOR FILING DATE: 2000-07-24

PRIOR FILING DATE: 2000-07-24

PRIOR FILING DATE: 2000-10-17

NUMBER OF SEQ ID NOS: 57
                             NUMBER OF SEQ ID NOS: 13
SOFTWARE FASTSEQ for Windows Version 4.0
SEQ ID NO 4
LENGTH: 169
TYPE: PRT
ORGANISM: Linum usitatissimum
US-10-165-289A-4
PRIOR FILING DATE: 2001-06-06
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Matches 6; Conservative
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Best Local Similarity 100.
Matches 6; Conservative
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ORGANISM: Homo sapiens
US-10-346-863-57
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US-09-805-354-5
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Sequence 5, Application US/10144259;
Publication No. US20030109691A1
GENERAL INFORMATION:
APPLICANT: Arnaout, M. Amin
APPLICANT: Li, Rui
APPLICANT: Loo-24800 US/10/144,259
CURRENT FILING DATE: 2002-09-04
PRIOR PAPLICATION NUMBER: US 09/758,493
PRIOR PAPLICATION NUMBER: US 60/221,950
PRIOR APPLICATION NUMBER: US 60/221,950
PRIOR APPLICATION NUMBER: US 60/221,950
SOFTWARE: FastSEQ for Windows Version 4.0
SOFTWARE: FastSEQ for Windows Version 5, Favore: 100
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APPLICANT: Biogen, Inc.
APPLICANT: Biogen, Inc.
APPLICANT: Biogen, Inc.
APPLICANT: Gotwals, Philip
APPLICANT: Gotwals, Philip
APPLICANT: Koteliansky, Victor
TITLE OF INVENTION: Method for the Treatment of Inflammatory;
TITLE OF INVENTION: Disorders
FILE REFERENCE: A076PCT 2001-11-30
FILOR APPLICATION NUMBER: 60/18536
PRIOR APPLICATION NUMBER: 60/18536
PRIOR APPLICATION NUMBER: 60/18536
PRIOR FILING DATE: 2000-02-29
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 9
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 6
LENGTH: 212
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  Length 195;
                                                    0; Indels
100.0%; Score 31; DB 10; 100.0%; Pred. No. 2.4e+02;
                                                    Mismatches
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Query Match 100.
Best Local Similarity 100.
Matches 6; Conservative
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CRGANISM: Homo sapiens
US-10-144-259-5
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Query Match
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 6; Conservative 0; Mismatches 0; Indels

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1 VQRGGR 6 |||||| 91 VQRGGR 96

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Search completed: April 15, 2004, 10:35:25 Job time : 43 secs

18961, 256 API, 256 API, 256 API, 256 API, 302311, 302311, 302340, 30134, 30134, 30134, 30134, 30134, 30633, 306093, 306095,

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General Information:
APPLICANT: Biogen, Inc.
APPLICANT: Gotwals, Philip
APPLICANT: Gotwals, Philip
ITLE OF INVENTION: Method for the Treatment of Fibrosis
FILE REFERENCE: A073US
CURRENT APPLICATION NUMBER: US/10/61,658
CURRENT FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: 60/137,214
PRIOR APPLICATION NUMBER: 60/137,24
PRIOR FILING DATE: 1999-04-22
NUMBER OF SEQ ID NOS: 10
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 8
LENGTH: 6
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patent No. 6652866

GENERAL INFORMATION:
PAPPLICANT: Biogen, Inc.
APPLICANT: Gorwals, Philip
APPLICANT: Gorwals, Philip
TITLE OF INVENTION: Method for the Treatment of Fibrosis
FILE REFERENCE: A073US
CURRENT APPLICATION NUMBER: US/10/061,658
CURRENT APPLICATION NUMBER: 60/137,214
PRIOR FILING DATE: 1999-06-01

PRIOR FILING DATE: 1999-06-01
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US-09-252-991A-18961
US-09-341-461-2
US-09-252-991A-25655
US-09-252-991A-25082
US-09-252-991A-19603
US-09-252-991A-19801
US-09-252-991A-27880
US-09-252-991A-27880
US-09-252-991A-27880
US-09-252-991A-27880
US-09-252-991A-291A-2955
US-09-252-991A-29554
US-09-252-991A-29554
US-09-252-991A-18172
US-09-252-991A-18172
US-09-252-991A-18172
US-09-252-991A-18172
US-09-252-991A-18172
US-09-252-991A-26085
US-09-252-991A-26085
US-09-252-991A-26085
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Patent No. 6652856
GENERAL INFORMATION:
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     ; ORGANISM: Homo sapien
US-10-061-658-8
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US-10-061-658-10
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US-10-061-658-8
       TYPE: PRT
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Sequence 10, Appl
Sequence 25437, A
Sequence 6, Appli
Sequence 9, Appli
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                                                                                                                                                           April 15, 2004, 10:27:11 ; Search time 23 Seconds (without alignments) 13.468 Million cell updates/sec
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'Ggn2_6/ptodata2/jaa/5A_COMB.pep:*
'Ggn2_6/ptodata2/jaa/5B_COMB.pep:*
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'Ggn2_6/ptodata2/jaa/6A_COMB.pep:*
'Ggn2_6/ptodata2/jaa/PCTUS_COMB.pep:*
'Ggn2_6/ptodata2/jaa/PCTUS_COMB.pep:*
'Ggn2_6/ptodata2/jaa/PCTUS_COMB.pep:*
                              version 5.1.6
- 2004 Compugen Ltd.
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US-09-252-991A-24420

US-09-252-991A-27211

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Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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Maximum DB seq length: 200000000
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Match Length
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Sequence 32247, Application US/09252991A

Sequence 32477, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:
APPLICANT:
MAKE J. Rubenfield et al.
APPLICANT:
MAKE J. Rubenfield et al.
TITLE OF INVENTION:
TITLE O
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APPLICANT: Biogen, Inc.
APPLICANT: Gowals, Philip
APPLICANT: Gowals, Philip
APPLICANT: Gotalsn's W, Victor
ITTLE OF INVENTION: Method for the Treatment of Fibrosis
FILE REFERENCE: A073US
CURRENT APPLICATION NUMBER: US/10/061,658
CURRENT APPLICATION NUMBER: 60/137,214
PRIOR APPLICATION NUMBER: 60/137,214
PRIOR FILING DATE: 1999-06-01
PRIOR FILING DATE: 1999-06-01
PRIOR FILING DATE: 1999-04-22
NUMBER OF SEQ ID NOS: 10
SEQ ID NO S: 10
SEQ ID NO S: 20
LENGTH: 214
    Indels
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    0; Mismatches
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                                                                                                                                                                                                                                                                                RESULT 5
US-10-061-658-9
; Sequence 9, Application US/10061658
; Patent No. 6652856
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US-09-252-991A-32247
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    6; Conservative
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; ORGANISM: Homo sapien
US-10-061-658-9
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Best Local Similarity
Matches 6; Conserv
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Matches 6; Conserv
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US-09-252-991A-24420
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    Matches
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APPLICANT: Marc J. Rubenfield et al.
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: ABRUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REPERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR PILING DATE: 1998-02-18
PRIOR FILING DATE: 1998-02-18
PRIOR PELICATION NUMBER: US 60/094,190
NUMBER OF SEQ ID NOS: 33142
LENGTH: 173
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63;
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Patent No. 6652856

GENERAL INFORMATION:
GENERAL INFORMATION:
APPLICANT: Biogen, Inc.
APPLICANT: Roceliansky, Victor
TITLE OF INVENTION: Method for the Treatment of Fibrosis
FILE REFERENCE: A073US
CURRENT FILING DATE: 2002-02-01
PRIOR PELICATION NUMBER: 60/137,214
PRIOR APPLICATION NUMBER: 60/137,214
PRIOR FILING DATE: 1999-04-02
NUMBER OF SEQ ID NOS: 10
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 6
SEQ ID NO 6
SEQ ID NO 6
SEQ ID NO 8
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Pred. No.
SOFTWARE: FastSEQ for Windows Version 4.0
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                                                                                                                TYPE: PRT
; ORGANISM: homo sapien
US-10-061-658-10
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Best Local Similarity
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Best Local Similarity
Matches 6; Conserv
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Best Local Similarity
Matches 6; Conserv
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US-09-252-991A-25437
                                           SEQ ID NO 10
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Sequence 26099, Application US/09252991A
Sequence 26099, Application US/09252991A
Patent No. 6521795
GENERAL INFORMATION:
APPLICANT MARC J. Rubenfield et al.
TITLE CP INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
TITLE CP INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
FRIOR APPLICATION NUMBER: US 60/074,788
FRIOR PILING DATE: 1999-02-18
FRIOR PILING DATE: 1999-02-18
FRIOR FILING DATE: 1996-07-27
NUMBER: OS 60/094,190
FRIOR FILING DATE: 1998-07-27
NUMBER: OS 60/094,190
FRIOR FILING DATE: 1998-07-27
SEQ 1D NO 26099
LENGTH: 863
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: MAIC J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND ANINO ACID SEQUENCES RELATING TO PSEUDOMONAS:
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REPRENCE: 107196.136
CURRENT APLICATION NUMBER: US/09/252,991A
CURRENT PILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 25547
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                                                                                                                                                                                        Length 391;
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                                                                                                              ; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-27211
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US-09-252-991A-25547
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     NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 27211
LENGTH: 391
TYPE: PRT
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Best Local Similarity 100...
6; Conservative
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Best Local Similarity
Matches 6; Conserv
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Best Local Similarity
Matches 6; Conserv
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US-09-252-991A-26099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; TYPE: PRT
; ORGANISM: Pseudo
US-09-252-991A-26099
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                   PAGENT NO. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J.
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
CURRENT APPLICATION NUMBER: US/09/252,991A
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
PRIOR SPLING DATE: 1998-07-27
PRIOR SPLING DATE: 1998-07-27
PRIOR SPLING DATE: 1998-07-27
PRIOR FILING DATE: 1998-07-27
PRIOR PRIOR PRIOR DATE: 1998-07-27
PRIOR PRIOR PRIOR DATE: 1998-07-27
PRIOR PRIOR PRIOR DATE: 1998-07-27
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Sequence 27211, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Wubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REPERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1999-02-18
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Patent No. 6610836

GENERAL INFORMATION:

APPLICANT: Gary Breton et. al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO KLEBSIELLA

TITLE OF INVENTION: PREUMONIAE FOR DIAGNOSTICS AND THERAPEUTICS

FILE REPERENCE: 2709.2004001

CURRENT FELLING NATE: 2000-01-27

PRIOR FULL SAPELICATION NUMBER: US 60/117,747

PRIOR PELING DATE: 1999-01-29

NUMBER OF SEQ ID NOS: 14342

SEQ ID NO 10294
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Sequence 24420, Application US/09252991A
Patent No. 6551795
                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Pseudomonas aeruginosa
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ORGANISM: Klebsiella pneumoniae
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Best Local Similarity 100.
Matches 6; Conservative
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Best Local Similarity
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US-09-252-991A-27211
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US-09-489-039A-10294
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GENERAL INFORMATION:
APPLICANT: Swanson, Ronald V.
APPLICANT: Feldman, Robert A.
APPLICANT: Feldman, Robert A.
APPLICANT: Feldman, Robert A.
APPLICANT: Feldman, RUCLEIC A.
APPLICANT: Feldman, RUCLEIC A.
TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAEUM SYMBIOSUM FILE REFERENCE: DOORP.002A US/09/408,020
CURRENT APPLICATION NUMBER: 60/102,294
PRIOR PILITAG DATE: 1998-09-29
NUMBER OF SEQ ID NOS: 123
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 56
LENGTH: 273
                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Swanson, Ronald V.
APPLICANT: Swanson, Robert A.
APPLICANT: Feldman, Robert A.
APPLICANT: Schleper, Christa
TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS FROM CENARCHAEUM SYMBIOSUM
FILE REPERENCE: DCORP.0028
URRENT APPLICATION NUMBER: 1999-09-29
PRIOR PILLING DATE: 1999-09-29
NUMBER OF SEQ ID NOS: 123
SOFTWARE: PASISEQ for Windows Version 3.0
SEQ ID NO 24
LENGTH: 269
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; Sequence 24, Application US/09408020
; Patent No. 6632937
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; Sequence 56, Application US/09408020
; Patent No. 6632937
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US-09-408-020-24
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TOPOLOGY: linear
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US-08-750-624-3
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                                                                                                                                                     Sequence 32419, Application US/09252991A
Patent No. 6551795
GENERAL INCORMATION:
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
CURRENT APLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR APPLICATION NUMBER: US 60/094,190
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 32419
LENGTH: 1011
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APPLICANT: James, Olive A
APPLICANT: Chong, Pell
APPLICANT: Chong, Pell
APPLICANT: Chong, Pell
APPLICANT: Chein, Michel H
APPLICANT: Title OF INVENTION: MINERAL SALT AND ANOTHER IMMUNOSTIMULATING COMPOUND
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
STREET: 6th Floor, 330 University Avenue
STREET: Ontario
COUNTRY: Canada
ZIP: MSG 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match

100.0%; Score 31; DB 4; Length 1011;
Best Local Similarity 100.0%; Pred. No. 2.9e+02;
Matches 6; Conservative 0; Mismatches 0; Indels
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
ODPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/750,624
FILING DATE: 26-FEB-1997
CLASSIFICATION: 424
ATTONNEY/AGENT INPORMATION:
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REGISTRATION NUMBER: 4,973
REFERENCE/DOCKET NUMBER: 1038-660
TELECOMMUNICATION INFORMATION:
TELEPHONE: (416) 595-1155
TELEPAX: (416) 595-1163
INFORMATION FOR SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 3, Application US/08750624 Patent No. 6290971 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TYPE: PRT ORGANISM: Pseudomonas aeruginosa
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Search completed: April 15, 2004, 10:29:55 Job time : 24 secs

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C; Species: Mus musculus (house mouse)
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spinal cord peptid
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T-cell receptor be
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                                                                                       April 15, 2004, 10:34:37; Search time 21 Seconds (without alignments) 27.483 Million cell updates/sec
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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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		RESSION OF THE STATE OF THE STA	\$ 6 6	RESULT 2 A23751 Spinal cord peptide SCP-4 - pig C;Species: Sus scrofa domestica (domestic C;Pate: 15-Jun-2001 #sequence_revision 15 C;Accesaion: A23751 C;Accesaion: A23751 A;Reference number: A23751; MUID:85250425 A;Reference number: A23751; MUID:85250425 A;Status: preliminary A;Nolecule type: protein A;Redidues: 1-3 cHSI: C;Superfamily: unassigned animal peptides	~ m z	පි පි	RES PT(

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T-cell receptor beta 2 chain D region, Dbeta2 - rabbit
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Accession: B53284
R;Harindranath, N.; Alexander, C.B.; Mage, R.G.
Mol. Immunol. 28, 881-889, 1931
A;Title: Evolutionarily conserved organization and sequences of germline diversity and JA;Title: Evolutionarily conserved organization and sequences of germline diversity and JA;Tetle: preliminary
A;Accession: B52284
A;Status: preliminary
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C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Accession: PT0706
R;Feeney, A.J.
J. Exp. Med. 174, 115-124, 1991
A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions. A;Reference number: PT0509; MUID:91277601; PMID:1711558
A;Accession: PT0706
A;Status: translation not shown
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C;Species: Oryccolagus cuniculus (domestic rabbit)
C;Daccession: A53284
R;Harindranath, N.; Alexander, C.B.; Mage, R.G.
Mol. Immunol. 28, 881-888, 1991
A;Fitle: Evolutionarily conserved organization and sequences of germline div A;Fitle: Evolutionarily conserved organization and sequences of germline div A;Fatus: preliminary
A;Accession: A52284
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-4 <HAR>
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A;Note: sequence extracted from NCBI backbone (NCBIN:60737; NCBIP:60739)
C;Keywords: T-cell receptor
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A;Residues: 1-4 «FBE»
A;Experimental source: newborn thymus, strain
C;Keywords: T-cell receptor
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N,Alternate names: dolabellanin C

S,Species: Dolabella auricularia

C,Species: Dolabella auricularia

C,Bate: 19-Mar-1993 #sequence_revision 19-Mar-1993 #text_change 18-Jun-1993

C,Accession: A60494

R,Kisugi, J.; Kaniya, H.; Yamazaki, M.

R,Kisugi, J.; Kaniya, H.; Yamazaki, M.

A,Title: Purification of dolabellanin-C an antineoplastic glycoprotein in the body fluid

A,Reference number: A60494; MUID:89357188; PMID:2767307
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C;Species: Mus musculus (house mouse)
C;Species: Mus musculus (house mouse)
C;Accession: PT0514
F;Feener: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997
C;Accession: PT0514
F;Feener: Trouble: PT0514
F;Feener: Munctional sequences of fetal T cell receptor beta chains have few N regions.
A;Reference number: PT0509; MUID:91277601; PMID:1711558
A;Accession: PT0514
A;Status: translation not shown
A;Residues: 1-6 cFEE>
A;Experimental source: adult thymus, strain BALB/C
C;Keywords: T-cell receptor
C,Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997 C,Datession: PT0707; PT0705 PT0707 PT0
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C;Keywords: T-cell receptor
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Best Local Similarity 50.0%; Pred. No. 2.8e+05;
Matches 2; Conservative 1; Mismatches 1;
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A,Molecule type: protein
A,Residues: 1-6 «KIS»
C,Keywords: cytolysis; glycoprotein; trimer
                                                                                                                                                                                                                                                                                                                          A,Status: translation not shown
A,Molecule type: DNA
A,Residues: 1-5 <FEE>
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Page 3

Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Qy 4 GG 5  Db 3 GG 4	Query Match  Best Local Similarity 100.0%; Pred. No. 2.8e+05;  Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  Qy 4 GG 5
600	Db 3 GG 4  RESULT 12  PTO 2677  TO 2677  TO 2677
C;Accession: B61445 R;Leung, M.K.; Stefano, G.B. Proc. Natl. Acad. Sci. U.S.A. 81, 955-958, 1984 A;Title: Isolation and identification of enkephalins in pedal ganglia of Mytilus edulis A;Reference number: A61445, MUID:84144823; PMID:6583690 A;Recession: B61445 A;Molecule type: protein A;Residues: 1-5 <	Listary Channi LRD (Store 3-74A) Indian (Iragment)  G.Species: Homo sapiens (man)  C.Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 16-Aug-1996  C.Accession: PTO&R:  R.Yamada, M.; Wasserman, R.; Reichard, B.A.; Shane, S.; Caton, A.J.; Rovera, G.  J. Exp. Med: 173, 395-407, 1991  A.Title: Preferencial utilization of specific immunoglobulin heavy chain diversity and j. A.Reference number: PTO&22; MUD:91108337; PMID:1899102  A.Rocession: PTO&26  A.Molecule type: DNA
12; DB 2; Length 5; No. 2.8e+05; natches 0; Indels 0; Gaps 0;	A,Experimental Source: B lymphocyte C;Keywords: heterotetramer; immunoglobulin C;Keywords: heterotetramer; immunoglobulin Query Match Best Local Similarity 100.0%; Ered. No. 2.8e+05; Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Qy 4 GG 5
RESULT 10 Ad1445 Met-enkephalin - blue mussel C;Species: Mytilus edulis (blue mussel) C;Species: Mytilus edulis (blue mussel) C;Accession: A61445 R;Leung, M.K.; Stefano, G.B. Proc. Natl. Acad. Sci. U.S.A. 81, 955-958, 1984 A;Title: Isolation and identification of enkephalins in pedal ganglia of Mytilus edulis A;Reference number: A61445 A;Accession: A61445 A;Molecule type: protein A;Residues: 1-5 cibu> A;Residues: 1-5 cibu> A;Experimental source: pedal ganglia A;Experimental source: pedal ganglia	RESULT 13 C53284 T-cell receptor beta 2 chain D region, Dbeta2 - rabbit C;Species: Oryctolagus cuniculus (domestic rabbit) C;Species: Oryctolagus cuniculus (domestic rabbit) C;Date: 02-May-1994 #sequence_revision 18-Nov-1994 #text_change 05-Nov-1999 C;Accession: C52384 Nol. Immunol. 28, 881-888, 1991 A;Title: Evolutionarily conserved organization and sequences of germline diversity and j: A;Accession: C52384 A;Scession: C52384 A;Status: preliminary
Query Match 38.7%; Score 12; DB 2; Length 5; Best Local Similarity 100.0%; Pred. No. 2.8e+05; Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	A:Residuas: 1-5 - CHAR> A;Residuas: 1-5 - CHAR> A;Cross-references: GB:S60737; NID:g233916; PIDN:AAB19519.1; PID:g233919 A;Note: sequence extracted from NCBI backbone (NCBIN:60737; NCBIP:60740) C;Keywords: T-cell receptor
Oy 4 GG 5 Db 2 GG 3	Query Match 38.7%; Score 12; DB 2; Length 5; Best Local Similarity 100.0%; Pred. No. 2.8e+05; Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
RESULT 11 B61168 coconase (EC 3.4.21) - Chinese oak silkmoth (fragment) C;Species: Antherzaea pernyi (Chinese oak silkmoth) C;Date: 10-Mar-1994 #sequence_revision 10-Mar-1994 #text_change 07-May-1999 C;Accession: B61168 B;Kramer, K.J.; Felsted, R.L.; Law, J.H. J; Biol. Chem. 248, 3021-3028, 1973 A;Title: Coconase. V. Structural studies on an insect serine protease. A;Reference number: A61168; MUID:73166540; PMID:4735570 A;Accession: B61168 A;Molecule type: protein A;Residues: 1-5 <kra> C;Keywords: hydrolase; serine proteinase; zymogen C;Keywords: hydrolase; serine proteinase; zymogen F;1-5/Product: coconase (fragment) #status experimental <wat></wat></kra>	Qy 4 GG 5  Db 3 GG 4  RESULT 14  PT0669 T-Ceil receptor beta chain V-D-J region (121-3BH) - mouse (fragment) C;Species: Mus musculus (house mouse) C;Date: 17-Jul-1992 #sequence_revision 17-Jul-1992 #text_change 30-May-1997 C;Accession: PT0669 R;Feerey, A.J. J. Exp. Med. 174, 115-124, 1991 A;Title: Junctional sequences of fetal T cell receptor beta chains have few N regions. A;Accession: PT0669; MUID:91277601; PMID:1711558 A;Accession: PT0669 A;Status: translation not shown

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T-cell receptor beta chain V-D-J region (141-1BA) - mouse (fragment)
C.Species: Mus musculus (house mouse)
C.Species: Mus musculus (house mouse)
C.Accession: PT058
R.Feensy, A.J.
A.Title: Junctional sequence of fetal T cell receptor beta chains have few N regions.
A.Reference number: PT0509; MUD:91277601; PMID:1711558
A.Retaus: translation not shown
A.Molecule type: mRNA
A.Residues: 1-5 FEES
A.Residues: 1-5 FEES
C.Keywords: T-cell receptor
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A;Molecule type: mRNA
A;Residues: 1-5 <FEED:
A;Experimental source: day 4 postnatal thymus, strain BALB/c
C;Keywords: T-cell receptor
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MEDLINE=95009907; PubMed=7523108;
MEDLINE=95009907; PubMed=7523108;
MEDLINE=95009907; PubMed=7523108;
Menrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk J.K.;
"Separation and sequencing of familiar and novel murine proteins using preparative two-dimensional gel electrophoresis.";
Electrophoresis 15:735-745(1994).
-!- MISCELLANBOUG: On the 2D-gel the determined pI of this unknown protein is: 6.6, its MW is: 19 kDa.
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01-MAY-1992 (Rel. 22, Last sequence update)
15-MAY-2004 (Rel. 43, Last annotation update)
Acylamino-acid-releasing enzyme (EC 3.4.19.1) (AARE) (Acyl-peptide hydrolase) (APH) (Acylaminoacyl-peptidase) (Fragment).
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SEQUENCE.

MEDISUBS-8222120; PubMed=1807161;

Krishna R.G., Chin C.C.Q., Wold F.;

Krishna R.G., Chin C.C.Q., Wold F.;

"N-terminal sequence analysis of N alpha-acetylated proteins after unblocking with N-acylaminoacyl-peptide hydrolase.";

Anal. Blochem. 199:45-50(1991).
                                                                                                                                                                                                                                                                                                                                                   01-0CT-1994 (Rel. 30, Created)
1-0CT-1994 (Rel. 30, Last sequence update)
15-MAR-2004 (Rel. 43, Last annotation update)
Unknown protein from 2D-page of fibroblasts (P19) (Fragment).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Mus.
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria; Lagomorpha, Leporidae, Oryctolagus.
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P80628
P82096
P42985
P19151
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                E104_LITRU
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UC22_LITRU
UC22_LITRU
E101_LITRU
OVM_EEPPE
UNO6_CLOPA
DCMS_PEECH
FFKA_ANTEL
FFKA_ANTEL
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ASP2_LACSN
VP19_HSV1K
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NCBI_TaxID=10090;
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DCML_PSECH
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RE32_LITRU
TPIS_CANFA
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CIP1_MYTED
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FLRF—HIRME
FLRN—ANTEL
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FYRI—ANTEL
TUFT—HUMAN
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Maximum Match 100%
Listing first 45 summaries
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31
1 VQRGGR 6
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X-RAY CRYSTALLOGRAPHY.

MEDLINE=93014529; PubMed=1399265;

MEDLINE=93014529; PubMed=1399265;

Ishida T., In Y., Doi M., Inoue M., Yasuda-Kamatani Y., Minakata H., Iwashita T., Nomoto K.;

"Crystal structure and molecular conformation of achatin-I
"Crystal structure and molecular conformation of achatin-I
"Crystal structure and molecular conformation of achatin-I
D-amino acid residue.";

D-amino acid residue.";

Int. J. Pept. Procien Res. 39:258-264(1992).

-I- FUNCTION: Neuroexcitatory peptide; increases the impulse frequency and produces a spike broadening of the identified heart excitatory neuron (PON); also enhances the amplitude and frequency of the heart beat. Has also an effect on several other muscles.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Mollusca; Gastropoda; Pulmonata; Stylommatophora;
Sigmurethra; Achatinoidea; Achatinidae; Achatina.
NCBI_TaxID=6530;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE, CHARACTERIZATION, AND SYNTHESIS.
STRAIN=Ferussac; TISSUE-Ganglion;
MEDLINE=8927351; PubMed=2597281;
MEDLINE=8927351; PubMed=2597281;
Funase K., Sun X.P., Yongsiri A., Kim K.H., Novales-Li P.,
Novales E.T., Kanapi C.G., Takeuchi H., Nomoto K.;
"Achatin-I, an endogenous neuroexcitettory tetrapeptide from Achatina fulica Ferussac containing a D-amino acid residue.";
Bjochem. Biophys. Res. Commun. 160:1015-1020(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pujimoto K., Kubota I., Yasuda-Kamatani Y., Minakata H., Nomoto K., Yoshida M., Harada A., Muneoka Y., Kobayashi M., Purification of achatin-I from the atria of the African giant snai: Achatina fulica, and ites possible function.", Bjochem. Biophys. Res. Commun. 177:847-853(1991).
                                                                                                                                                                      MEDIME=77162369; PubMed=858356;
Schlesinger D.H., Pickart L., Thaler M.M.;
Schlesinger D.H., Pickart L., Thaler M.M.;
Growth-modulating serum tripeptide is glycyl-histidyl-lysine.";
Experientia 33:324-325 [1977].
-1- MISCELLANEOUS: This serum tripeptide has been found to stimula
growth of some cell types and to inhibit other types in vitro.
GO; GO:0001558; P:regulation of cell growth; NAS.
SEQUENCE 3 AA; 340 MW; 6331E81000000000 CRC64;
                                                                Craniata, Vertebrata, Euteleostomi,
Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                  0; Indels
                                                                                                                                                                                                                                                                                                                                                                        DB 1; Length 3;
                                                                                                                                                                                                                                                                                                                                                                        1 19.4%; Score 6; DB 1; Le:
Similarity 100.0%; Pred. No. 1.4e+05;
1; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-JUN-1994 (Rel. 29, Created)
01-JUN-1994 (Rel. 29, Last sequence update)
15-JUL-1998 (Rel. 36, Last annotation update)
21-JUL-1986 (Rel. 01, Last annotation update)
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STRAIN=Ferussac, TISSUE-Heart atrium;
MEDLINE-91264856; PubMed=1675568;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Achatina fulica (Giant African snail)
                                                                Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                    Growth-modulating peptide.
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STANDARD;
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Best Local Similarity
                                                                                                          NCBI_TaxID=9606;
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                       peptide bond of an N-acetylated peptide to generate an N-acetylated amino acid and a peptide with a free N-terminus. It preferentially cleaves off Ac-Ala, Ac-Met and Ac-Ser.
CATALYTIC ACTIVITY: Acylaminoacyl-peptide + H(2)0 = acylamino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDINE-90351557; PubMed=2386615;
Cintra A.C.O., Vieira C.A., Giglio J.R.;
Principal and biological activity of bradykinin potentiating Deptides from Bothrops insularis snake venom.";
J. Protein Chem. 9:221-227(1990).
-I-FINCTION: This peptide both inhibits the activity of the argiotensin-converting enzyme and enhances the action of bradykinin by inhibiting the kinases that inactivate it.

It acts as an indirect hypotensive agent.
PIR, 637196.
Hypotensive agent; Pyrrolidone carboxylic acid.
MOD RES.

I. PYRROLIDONE CARBOXYLIC ACID.
SEQÜENCE 5 AA, 629 MW; 776DC37326B00000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
FUNCTION: This enzyme catalyzes the hydrolysis of the N-terminal
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01-FEB-1994 (Rel. 28, Last sequence update)
08-FEB-2003 (Rel. 41, Last annotation update)
Bradykinin-potentiating peptide S5,2 (5A) (Angiotensin-converting enzyme inhibitor).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bothrops insularis (Island jararaca) (Queimada jararaca).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Aguamata; Scleroglossa; Serpentes; Colubroidea;
Viperidae; Crotalinae; Bothrops.
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                                                                                                                                                                                                                                                                                                                                                 6 AA; 775 MW; 6732D6C40B16F000 CRC64;
                                                                                                                                                                           S9G.
                                                                + peptide.
-!- SUBUNIT: Homotetramer.
-!- SUBUNIT: Homotetramer.
-!- SUBLELLUIAR LOCATION: Cytoplasmic.
-!- SIMILARITY: Belongs to peptidase family.
PIR; A49792; A49792.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5 AA.
                                                                                                                                                                                                                                     InterPro, IPR002471, Pept S9 AS.
PROSITE; PS00708, PRO ENDOPED SER; PARTIAL.
Hydrolase, Acetylation.
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                                                                                                                                                                                                                                                                                                                                                                                                                                       1; Conservative
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P01157;
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SEQUENCE
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RESULT 3
BPP7 BOTIN
ID BPP7 BO
AC P30425;

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D-PHENYLALANINE

Hormone; D-amino acid. MOD\_RES 2

(Rel. 01, Created)
(Rel. 01, Last sequence update)

21-JUL-1986 21-JUL-1986

124E

RESULT 4
GRWM HUMAN

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28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence
15-WAR-2004 (Rel. 43, Last annotaticardioactive peptides Ocp-1/Ocp-2.
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OCP1_OCTM1
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AC P58648;
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GoeEzl B.C.' Austen K.F.;
"Purification and synthesis of eosinophilotactic tetrapeptides of
human lung tissue: identification as eosinophil chemotactic factor of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       acceptor.
-!- COFACTOR: Molybdenum (molybdopterin).
-!- SUBUNIT: CONSISTS OF THREE POLYPEPTIDE CHAINS: LARGE, MEDIUM, AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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MEDILINE=90055678, PubMed=2818128,
Kraut M., Hugendieck I., Herwig S., Meyer O.,
"Homology and distribution of CO dehydrogenase structural genes in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Arch. Microbiol. 152:335-341(1989).
-!- FUNCTION: Catalyzes the oxidation of carbon monoxide to carbon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota, Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               dioxide.
-!- CATALYTIC ACTIVITY: CO + H(2)O + acceptor = CO(2) + reduced
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Bacteria; Protecbacteria; Alphaproteobacteria; Rhizobiales;
Bradyrhizobiaceae.
                                                                            19.4%; Score 6; DB 1; Length 4; 100.0%; Pred. No. 1.4e+05; ative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19.4%; Score 6; DB 1; Length 4; 100.0%; Pred. No. 1.4e+05; ative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-FEB-1991 (Rel. 17, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Carbon monoxide dehydrogenase large chain (EC 1.2.99.2)
dehydrogenase subunit L) (CO-DH L) (Fragment).
4 AA; 408 MW; 6AADD9C81000000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4 AA; 441 MW; 7761E876F000000 CRC64;
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21-JUL-1986 (Rel. 01, Last sequence update)
21-JUL-1986 (Rel. 01, Last annotation update)
Eosinophilotactic peptides.
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Matches 1; Conserv
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P19916;
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SEQUENCE
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DCML PSECH
DDT DDT 6916
DT 01-FEB-

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EOSI_HUMAN
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Matches
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**AISCELLANBOUS: These peptides are released from mast cells in lung (and other tissues) during hypersensitivity reactions (anaphylaxis). Their activities, preferentially affecting ecsinophils, include chemotaxis, chemotactic deactivation, release of enzymes, and stimulation of the hexose monophosphate shunt. GO; GO:0006935; P:chemotaxis, IDA.

VARIANT

| V -> A [IN OTHER PEPTIDE).
| FITTG=UAR 005201.
| FITTG=UAR 005201.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=20336815; PubMed=10876044; Iwakoshi E., Hisada M., Minakata H.; Iwakoshi E., Hisada M., Minakata H.; "Cardioactive peptides isolated from the brain of a Japanese octopus, octopus minor.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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Bukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea; Octopodiformes; Octopoda; Incirrata; Octopodidae; Octopus.
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Eukaryota: Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea;
Octopodiformes; Octopoda; Incirrata; Octopodidae; Octopus.
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TISSUE=Brain;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Indels
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4 AA; 394 MW; 6AA879C810000000 CRC64;
                                                                                                                                                                                                                                                                                         'Match 19.4%; Score 6; DB 1; Length 4; Local Similarity 100.0%; Pred. No. 1.4e+05; es 1; Conservative 0; Mismatches 0; Indelies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 1; Length 4;
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28-FBB-2003 (Rel. 41, Last sequence update)
28-FBB-2003 (Rel. 41, Last annotation update)
Cardioactive peptides Ocp-3/Ocp-4.
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Last annotation update)
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Similarity 100.0%; Pred. No. 1.4
1; Conservative 0; Mismatches
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TISSUE=Skin secretion;
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Best Local Similarity
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                                                                                                                   SEQUENCE
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                             MEDLINE=20336815; PubMed=10876044;
Iwakoshi E., Hisada M., Minakata H.;
"Cardioactive peptides isolated from the brain of a Japanese octopus,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
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30-MAY-2000 (Rel. 39, Last sequence update)
28-FEB-2003 (Rel. 41, Last annotation update)
Pardaxin II (PXII) (Fragment).
Pardaxin us marmoratus (Red sea moses sole).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Buteleostei;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Isolation and identification of multiple neuropeptides of the allatostatin superfamily in the shore crab Carcinus maenas.";
Eur. J. Biochem. 250:727-734(1997).
-!-FUNCTION: May act as a neurotransmitter or neuromodulator.
-!-SIMILARITY: Belongs to the allatostatin family.
Nouropeptide; Amidation; Multigene family.
MOD RES.
5 AMIDATION (POTENTIAL).
SEQÜENCE 5 AA; 586 MM; 672879D5AB300000 CRC64;
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MEDLINE=98121193; PubMed=9461295;
Duve H., Johnsen A.H., Maestro J.-L., Scott A.G., Jaros P.P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Carcinus maenas (Common shore crab) (Green crab).
Carcinus maenas (Common shore crab) (Green crab).
Bukaryota; Metazca; Arthropoda; Crustacea; Malacostraca;
Bukalacostraca; Bucarida; Decapoda; Plecyemata; Brachyura;
Bubrachyura; Portunoidea; Portunidae; Carcinus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19.4%; Score 6; DB 1; Length 4; 100.0%; Pred. No. 1.4e+05; ttive 0; Mismatches 0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                        2 2 D-SERINE (IN OCP-4).
4 AA; 463 MW; 6AB365BB10000000 CRC64;
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30-WAY-2000 (Rel. 39, Last sequence update)
30-WAY-2000 (Rel. 39, Last annotation update)
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Best Local Similarity 100.
Matches 1; Conservative
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Best Local Similarity
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TISSUE=Brain;
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P81864;
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PAP2 PARMA
1D PAP2 PA
AC PAP3 PAC
DT 30-MAY.
DT 28-PAY
DT 28-PAC
OC ENVAYOUT
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AL14—CARMA
AL14—CARMA
AL14—CARMA
AL14—CARMA
DT 30—MAY.

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TISSUBE-Skin secretion,
MEDLINE-87057359; PubMed=1782138;
Lazazovici P., Primor N., Loew L.M.;
"Purification and pore-formit polypeptides from the secretion of the Red sea moses sole (Pardachirus polypeptides from the secretion of the Red sea moses sole (Pardachirus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps
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                                                                                                                                                                                                                                                                             maxmoratus).";
J. Biol. Chem. 261:16704-16713 (1986).

-!- FUNCTION: Exhibits unusual shark repellent and surfactant properties. Forms voltage-dependent, ion-permeable channels in membranes. At high concentration causes cell membrane lysis.
-!- SUBURIT: Monomer. In aqueous solution exists as a tetramer.
-!- SUBURITY: Belongs to the pardaxin family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Wabnitz P.A., Bowie J.H., Tyler M.J., Wallace J.C.;
"Peptides from the skin glands of the Australian buzzing tree frog
Litori electrica. Comparison with the skin peptides from Litoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Litoria rubella (Desert tree frog).
Bukaryota, Metažoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Amphibia, Batrachia, Anura, Neobatrachia, Hyloidea, Hylidae,
Pelodryadinae, Litoria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Aust. J. Chem. 52:639-645(1999).
-!- FUNCTION: Shows neither neuropeptide activity nor antibiotic
Acanthomorpha; Acanthopterygii; Percomorpha; Pleuronectiformes; Soleoidei; Soleidae; Pardachirus.
NCBI_TaxID=31087;
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-!- SUBCELLULAR LOCATION: Secreted.
-!- TISSUE SPECIFICITY: Expressed by the skin dorsal glands.
Amphibian defense peptide.
SEQUENCE 5 AA; 570 MW; 71A9C9C862A00000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 19.4%; Score 6; DB 1; Length 5; Best Local Similarity 100.0%; Pred. No. 1.46+05; Matches 1; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5 AA; 614 MW; 7769C9C8100000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 12
RE32 LITRU STANDARD; PRT; 5 AA.
AC 82073;
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 18-FEB-2003 (Rel. 41, Last sequence update)
DT 0-0CT-2003 (Rel. 42, Last annotation update)
DF Rubellidin 3.2.
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TPIS_CANFA
1D TPIS_CANFA STANDARD; 1
C F54714;
DT 01-OCT-1996 (Rel. 34, Created)
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                                                                                                                                                                                                                                                                                            TISSUE-Heart,
MEDLINE-98163340, PubMed=9504812;
Dunn M.J., Corbett J.M., Wheeler C.H.,
HSC-2DFAGE and the two-dimensional gel electrophoresis database of
dog heart proteins.",
Electrophoresis 18:2795-2802(1997).
--- CATALYTIC ACTIVITY: D-glyceraldehyde 3-phosphate = glycerone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       phosphate.
-!- PATHWAY: Plays an important role in several metabolic pathways.
-!- SUBUNIT: Homodimer (By similarity).
-!- SUBUNIT: Belongs to the triosephosphate isomerase family.
HSC-2DPAGE; P54714; DOG.
HSC-2DPAGE; P54714; DOG.
PROSITE; P500171; TIM; PARTIAL.
ISOMERASE; Glycolysis; Gluconeogenesis; Fatty acid biosynthesis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Submitted (SEP-1994) to Swiss-Prot.
-!- MISCELLANEOUS: ON THE 2D-GEL THE DETERMINED PI OF THIS UNKNOWN PROTEIN IS: 4.5, ITS MW IS: 28 kDa.
Siena-2DPAGE; P38005, -.
NON TER
SEQUENCE 5 AA, 474 MW; 75BAA865BA800000 CRC64;
                                                                                                                   Canis familiaris (Dog).
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi;
Mammalia, Eutheria, Carnivora, Fissipedia, Canidae, Canis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN=L2/434/Bu;
Bini L., Santucci A., Magi B., Marzocchi B., Sanchez-Campillo M.,
Comanducci M., Christianen G., Birkelund S., Vtretou E., Ratti G.
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01-OCT-1994 (Rel. 30, Last sequence update)
30-MAY-2000 (Rel. 39, Last annotation update)
Unknown protein from 2D-page from elementary body (Fragment).
Chlamydia trachomatis.
Bacteria: Chlamydiae; Chlamydiales; Chlamydiaceae; Chlamydia.
NCBL TaxID=813;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 1; Length 5;
. 1.4e+05;
ches 0; Indels
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01-OCT-1996 (Rel. 34, Last sequence update)
15-JUL-1998 (Rel. 36, Last annotation update)
Triosephosphate isomerase (EC 5.3.1.1) (TIM) (Fragment).
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5 5
5 AA; 550 MW; 64444862C9A00000 CRC64;
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100.0%; Pred. No. 1.4
ative 0; Mismatches
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es 1; Conserv
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Best Local Similarity
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AC D18076;

DT 01-0CT-1994

DT 01-0CT-1994

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DT 01-0CT-1994

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CIP1_MYTED
AC P1375.

AC P1376.

BENEROL 13. Created

AC O1-ANA-1990 (Rel. 13. Created)

BENEROL 13. Last annotation update)

BE CONTRACTOR-Inhibiting peptide I (MIP I).

CO BURATORIA MALLIGAE, MyLilus.

CO MyLiloidea; MyLilidae; MyLilus.

RX MEDLINE-8824035; PubMed=3377776;

RX MEDLINE-88240
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Title: Perfect score:

Run on:

Sequence:

Scoring table:

Searched:

Database

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MEDINE-20435798; PubMed-10874046;

MEDINE-20435798; PubMed-10874046;

MEDINE-20435798; PubMed-10874046;

MEDINE-20435798; PubMed-10874046;

The plastid ribosomal A.R.;

The plastid ribosomal proteins. Identification of all the proteins in the 50 S subunit of an organelle ribosome (chloroplast).";

The 50 S subunit of an organelle ribosome (chloroplast).";

The 50 S subunit of an organelle ribosome (chloroplast).";

THEORET THIS PROTEIN BINDS DIRECTLY TO 23S RIBOSOMAL RNA.

TISSUES SPECIPICITY: EXPRESSED IN ALL PLANT TISSUES.

TISSUE SPECIPICITY: EXPRESSED IN ALL PLANT TISSUES.

THEORET THEORET THE 2D-GEL ITS NW IS: 16.5 KDA.

TO GO:0019843; FIRNA binding; IEA.

GO; GO:00193735; Fistuatural constituent of ribosome; IEA.

RICHEPTO: IPRO202363; Ribosomal Libosome; IEA.

RICHEPTO: IPRO202361; Ribosomal Libosome; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRAIN-CV. ALWARO, TISSUE-Leaf;

XX MEDLINE-20435799; PubMed=10874046;

XY Pamaguchi K., Subramanian A.R.;

Yamaguchi K., Subramanian A.R.;

XT The plastid ribosomal proteins. Identification of all the proteins in the 50 S subunit of an organelle ribosome (chloroplast).";

J. Biol. Chem. 275:2446-28442(2000).

XZ T. Biol. Chem. 275:2446-28442(2000).

YE TO THOSE SPECIFIED BINDS DIRECTLY TO 238 RIBOSOMAL RNA.

YE THSOUR SPECIFICITY: BERRESSED IN ALL PLANT IISSUES.

YE THOSE SPECIFICITY: BERRESSED IN ALL PLANT ISSUES.

YE MISCELLANBOUS: ON THE 2D-GEL ITS MM IS: 16.5 KDA.

CO SO COLODOSOM? CICHLORDHAST: IEA.

GO; GO:0019843; F:RRN binding; IEA.

GO; GO:0013735; F:STRUCTURIAL CONSTITUENT OF RIBOSOMAL PROTEINS.

RO; GO:0003735; F:STRUCTURIAL CONSTITUENT OF RIBOSOME; IEA.
                         PRELIMINARY; PRT; 6 AA.
PRELIMINARY; PRT; 6 AA.
PRELIMINARY; PRT; 6 AA.
PRELIB;
01-JUN-2000 (TrEMBLrel. 14, Last sequence update)
01-JUN-2000 (TrEMBLrel. 25, Last annotation update)
Chloroplast 50S ribosomal protein L10 beta (Fragment).
Spinacia oleracea (Spinach).
Bukaryota, Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Caryophyllales; Amaranthaceae; Spinacia.
NCBI_TAXID=3362;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta, Spermatophyta, Magnoliophyta, eudicotyledons, core eudicots; Caryophyllales, Amaranthaceae, Spinacia.
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Pred. No. 1e+06;
1; Mismatches 1; Indels
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01-JUN-2000 (TrEMBLrel. 14, Created)
01-JUN-2000 (TrEMBLrel. 14, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
Chloroplast SOS ribosomal protein L10 gamma (Fragment).
Spinacia oleracea (Spinach).
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Similarity 33.3%;
1; Conservative
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P83570 septa offic
P83508 gallus gall
P82541 spinacia ol
Q08433 rattus sp.
P83583 lactobacill
P8358 septa offic
P83073 bacillus ce
Q99007 hordeum vul
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P82182 spinacia ol
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                GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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Maximum Match 100%
Listing first 45 summaries
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Gapop 10.0 , Gapext 0.5
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"Fertilization in Sepia officinalis: the first mollusk sperm-
"Fertilization in Sepia officinalis: the first mollusk sperm-
Biochem. Blophys. Res. Commun. 296:1186-1193 (2002).

-! FUNCTION: ATTRACTS SPERM INCREASING THE CHANCES OF GAMETE
COLLISION.

-! DEVELOPMENTAL STAGE: FIRST APPEARS IN THE CVARIAN FOLLICLES FURING
VITELLOGENESIS. ACCUMULATES IN THE COCYTES BEFORE BEING SECRETED
DURING FERTILIZATION. EXPRESSION CONTINGES IN THE EMBEDDED OOCYTE.

ACCUMULATES IN THE EGG CAPSULE AFFER FERTILIZATION.

ACCUMULATES IN THE EGG CAPSULE AFFER FERTILIZATION.

MASS SPECTROMETRY: MW=596.6, METHOD=MALDI.
                                                                                           Gaps
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01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
50-JUN-2003 (TrEMBLrel. 24, Last annotation update)
5perm attracting peptide SepSAP.
5epim attractinalis (Common cuttlefish).
5ebkaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neccoleoidea;
6capodiformes; Sepioidea; Sepiidae; Sepia.
6cbl. TaxID=6610;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sepia officinalis (Common cuttlefish).
Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Neocoleoidea;
Decapodiformes; Sepioidea; Sepiidae; Sepia.
NCBI_TaxID=6610;
                                                                                                                                                                                                                                                                                                                             SEQUENCE, FUNCTION, DEVELOPMENTAL STAGE, MASS SPECTROMETRY, AND
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                                                                    DB 10; Length 6;
1e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22.6%; Score 7; DB 5; Length 6; 25.0%; Pred. No. 1e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE, FUNCTION, MASS SPECTROMETRY, AND AMIDATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Neuropeptide GWa.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 6 AMIDATION.
6 AA; 597 MW; 72C8676AA0470000 CRC64;
                                InterPro, IPR002363; Ribosomal LiDeub.
PROSITE, PS01109; RIBOSOMAL LiŪ; PARTIAL.
Ribosomal protein; Chloroplast; rRNA-binding.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2 AA.
                                                                                                                                                                                                 6 AA.
                                                                                          1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1; Mismatches
                                                                Query Match
25.8%; Score 8;
Best Local Similarity 33.3%; Pred. No.
Matches 1; Conservative 1; Mismatc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Henry J., Favrel P., Boucaud-Camou E.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1; Conservative
                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE=Optic lobe;
PubMed=9437704;
                                                                                                                                                                                                                                                                                                                                                   TISSUE=E99;
PubMed=12207899;
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2 ISR 4
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P83569;
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P83570;
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P83569
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P83570
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0
"Isolation and identification of a novel Ala-Pro-Cly-Trp-amide-related cuttlefish, Sepia officinalis.";

Peptide inhibiting the motility of the mature oviduct in the cuttlefish, Sepia officinalis.";

Peptides 18:1469-1474(1597).

-! FUNCTION: REGULATORY NEUROPEPTIDE WITH MYOTROPIC ACTIVITY TAGGETING THE DISTAL OVIDUCT. INHIBITS THE MOTILITY OF THE OVIDUCT BY DECREASING TONUS, RECUENCY AND AMPLITUDE OF CONTRACTIONS.
-!- MASS SPECTROMETRY: WW=259.9; METHOD=MALDI.
GO:0007218; P:neuropeptide signaling pathway; IEA.
Neuropeptide, amidation.
Mouropeptide, Amidation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-JUN-2002 (TrEMBLrel. 21, Created)
01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Gallus gallus (Chicken)
Eukaryota; Mctazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PubMed=6137771;
Dockray G.J., Reeve J.R. Jr., Shively J., Gayton R.J., Barnard C.S.;
"A novel active pentapeptide from chicken brain identified by
antibodies to PMRFamide.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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-!- FUNCTION: MAY FUNCTION AS A NEUROTRANSMITTER OR MODULATOR.
-!- SIMILARITY: BELONGS TO THE FARP (FWRFAMIDE RELATED PEPTIDE)
- PAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        .;
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                                                                                                                                                                                                                                                                                                                                                                                                                    DB 5; Length 2;
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01-007-2000 (TrEMBLrel. 15, Last sequence update)
01-007-2003 (TrEMBLrel. 25, Last sequence update)
01-007-2003 (TrEMBLrel. 25, Last annotation update)
chloroplast 30S ribosomal protein S19 beta (Fragment).
Chloroplast.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GO; GO:0007218; P:neuropeptide signaling pathway; TAS.
Neuropeptide; Amidation.
MOD_RES 5 5 AMIDATION.
                                                                                                                                                                                                                                                                                                                      MOD_RES 2 AMIDATION.
SEQUENCE 2 AA; 261 MW; 737810000000000 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                               1e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      5 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0; Mismatches
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100.0%; Pred. No.
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PubMed=12112860;

PubMed=12112860;

Weiss W., Reil G., Parlar H., Wait R., Goerg A.;

"High pressure effects step-wise altered protein expression in
Lactobacillus sanfranciscensis.";

Proteomics 2.765-774(2002).

Proteomics 2.765-774(2002).

PROTEIN IS: 15 KDA.
                                                                                               Unknown protein from 2D-page (Fragment).
Lactobacillus sanfranciscensis (Lactobacillus sanfrancisce).
Bacteria; Firmicutes; Lactobacillales; Lactobacillus.
Lactobacillus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12.9%; Score 4; DB 2; Length 6; 100.0%; Pred. No. 1e+06; cive 0; Mismatches 0; Indels
P83533 PRELIMINARY; PRT; 6 AA.
P83533,
01-JUN-2003 (TrEMBLrel. 24, Created)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6 AA; 590 MW; 6DDDD452D1AAC000 CRC64;
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Best Local Similarity 100.
Matches 1; Conservative
                                                                                                                                                                                                                                   SEQUENCE.
STRAIN=DSM 20451;
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PubMed=12207899;
                                                                                                                                                                                          WCBI_TaxID=1625;
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SEQUENCE
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P83568
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                               SEQUENCE, FUNCTION, AND MASS SPECTROMETRY.

RA SEQUENCE, FUNCTION, AND MASS SPECTROMETRY.

RA SEQUENCE, ALWARO, TISGUE-Leaf;

RA MEDLINE=20435797; Dubmed=10874039;

RA MEDLINE=20435797; Dubmed=10874039;

RT "The plastid ribosomal proteins. Identification of all the proteins in the small subunit of an organelle ribosome (chloroplast).";

L. Biol. Chem. 37.28455-28465(2000).

C. I SHORDING THIS PROTEIN BINDS DIRECTLY TO 16S RIBOSOMAL RNA.

C. I SUBCELLULAR LOCATION: CHLOROPLAST.

C. I TISGUE SPECIFOCITY: EXPRESED IN ALL PLANT TISGUES.

C. I MASS SPECIFOMETRY: MM=10495; METHOD=ELECTROSPRAY.

C. I MASS SPECIFOMETRY: MM=10495; METHOD=ELECTROSPRAY.

C. I MASS SPECIFOMETRY: MM=10495; METHOD=ELECTROSPRAY.

C. I MASS SPECIFOMETRY: MM=10495; METHOD=MALDI.

C. I MASS SPECIFOMETRY: MM=10405; METHOD=MALDI.

C. I MASS SPECIFOMETRY: MM=1040500; METHOD=MALDI.

C. I MASS SPECIFOMETRY: MM=1040500; METHOD=MALDI.

C. I MASS S
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Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia; Butheria, Rodentia, Sciurognathi, Muridae, Murinae, Rattus.
NCBI_TaxID=10118;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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"Genetic defect of bilirubin UDP-glucuronosyltransferase in the hyperblirubinemic Gunn rat.";
Blochem. Blochywa. Res. Commun. 177:1161-1164(1991).
EMBL; S38636; AAB19259.1;
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0; Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     008433;
01-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-JUN-2003 (TrEMBLrel. 24, Last annotation update)
Bilirubin UDP-glucuronosyltransferase (Fragment).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE 6 AA; 732 MW; 63333735A411C000 CRC64;
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100.0%; Pred. No. 1e+
cive 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
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Best Local Similarity
Matches 1; Conserv
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  NCBI_TaxID=3562;
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Q08433
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PubMed=10944467;
Zatylny C., Gagnon J., Boucaud-Camou E., Henry J.;
LIME: a waterborne pheromonal peptide released by the eggs of Sepia officinalis.";
Biochem. Biophys. Res. Commun. 275:217-222(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                  Eukaryota; Metazoa; Mollusca; Cephalopoda; Coleoidea; Meocoleoidea;
Decapodiformes; Sepioidea; Sepiidae; Sepia.
NGI_TaxID=6510;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        -i- SUBCELLULAR LOCATION: SECRETED.
-i- TISSUE SPECIFICITY: FOLLICLE, FULLY GROWN OOCYTE AND EGG(BC2).
-i- MASS SPECTROMETRY: NW=505-4; METHOD=MALDI.
GO; GO:0005186; F:pheromone activity; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Biochem. Biophys. Res. Commun. 296:1186-1193(2002).
-1- FUNCTION: HAS MYOTROPIC ACTIVITY TARGETING THE GENITAL TRACT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                 Zatylny C., Marvin L., Gagnon J., Henry J., "Fertilization in Sepia officinalis: the first mollusk spermattracting peptide.";
                                                                                                                                                                                            SEQUENCE, SUBCELLULAR LOCATION, TISSUE SPECIFICITY, AND MASS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 4;
P83568
P83568,
P01-303 (Tremblrel. 24, Created)
01-JUN-2003 (Tremblrel. 24, Last sequence update)
01-JUN-2003 (Tremblrel. 24, Last sequence update)
01-JUN-2003 (Tremblrel. 24, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4 AA; 505 MW; 6B1697203000000 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9.7%; Score 3; DB 5; ilarity 0.0%; Pred. No. 1e+06; Conservative 1; Mismatches
                                                                                        Pheromone peptide ILME.
Sepia officinalis (Common cuttlefish).
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nes 0; Conserv
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Matches
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œ RESULT P83533

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AMY1 GENE.
Hordeum vulgare (Barley).
Bukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnollophyta; Liliopsida; Poales; Poaceae; Pooldeae;
Triticeae; Hordeum.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
MEDLINE=9129704; PubMed=1831055;
Macobsen J.V., Close T.J.;
"Control of transient expression of chimaeric genes by gibberellic acid and absciss acid in protoplasts prepared from mature bareley aleurone layers.
Plant Mol. Biol. 16:713-721(1991).
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6.5%; Score 2; DB 10; Length 5;
Best Local Similarity 0.0%; Pred. No. 1e+06;
Matches 0; Conservative 1; Mismatches 0; Indels
                                                                                  01-OCT-2001 (TrEMBLrel. 18, Created)
01-OCT-2001 (TrEMBLrel. 18, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
88 kDa protein (Fragment).
Bacillus cereus.
Bacteria, Firmicutes, Bacillales; Bacillaceae, Bacillus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match 6.5%; Score 2; DB 2; Length 5; Best Local Similarity 0.0%; Pred. No. 1e+06; Matches 0; Conservative 2; Mismatches 0; Indel.
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Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE.
STRAIN-NCIMB 11796;
Browne N., Dowds B.C.A.;
Submitted (JUL-2001) to Swiss-Prot.
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01-NOV-1996 (TrEMBLrel. 01,
01-MAR-2003 (TrEMBLrel. 23,
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                                                                                                                                                                                                                                                                                                                                                             SEQUENCE
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Q99007;
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RESULT 10
P83073
AC P83077
DT 01-0C
DT 01-0C
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OS Bacil
OC NCBI
NN [1]
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RR SEQUE
RC STRAIL
RA Brown
RI SUDMI
FT SOUTE
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099007
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Minimum Match 0% Maximum Match 100% Listing first 45 summaries

Post-processing:

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Human alp Peptide u Human alp Rho 110 1 Sequence Enzyme in Peptide d Folic aci Cysteine-HRG-betal Zinc fing Zinc fing Zinc fing Zinc fing Targettin Targettin N-termina Beta-turn Beta-turn Human neu Activated Peptide 1 Peptide 1 Peptide 1 Peptide Description Aaws6877 Aaws6877 Aays6877 Aars6426 Aars6732 Aau84117 Aau841118 Aau84113 Aau84113 Aau84113 Aau84113 Aau84113 Aau84113 Aau84114 Aau84118 Aau8644 Aau8644 Aau8644 Aam52128 Adc15546 Aab50043 Aay15672 3aw86183 SUMMARIES AAR86432 AAB36754 AAU84117 AAU84112 AAU84118 ABG77837 ABG77786 AAP40464 AAB50043 AAW86183 AAM52128 ADC15546 AAP40375 AAW56877 AAY15673 AAY15674 AAY15672 ABR55440 AAP71469 AAU84113 AAY20702 Length Query Score  $\begin{smallmatrix} \mathsf{C} & \mathsf{C}$ Result

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AAY09567 AAY09576 AAY80831 AAY80830	AAY80829 AAB62166 AAE08718 AAB86872	ABG77878 ABG77838 AAE28172 ABG74220	ADC14112 ADC98087 AAP40483 AAP81943 AAP80452	AAR07685 AAR20332 AAR20331
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## ALIGNMENTS

Human alphal integrin domain epitope Ā φ AAB50043 standard; peptide; (first entry) 14-MAR-2001 RESULT 1 

Human; alphal integrin domain; alphalbetal function blocking inflammatory disorder; rheumatoid arthritis; skin condition; bronchitis; headache; antipyretic; fever; gastrointestinal; vascular disease; autoimmune; respiratory distress syndrome; endotoxin shock syndrome; atherosclerosis. Homo sapiens

WO200072881-A1

01-JUN-2000; 2000WO-US015004. 07-DEC-2000

01-JUN-1999; 99US-0137038P. 29-FEB-2000; 2000US-0185336P.

(BIOJ ) BIOGEN INC

Koteliansky V; ď Lobb ď Gotwals WPI; 2001-061448/07. De Fougerolles A,

Use of blocking monoclonal antibody capable of binding to an epitope VLA-1 for treating inflammatory disorders, in particular arthritis. Claim 1; Fig 15; 60pp; English

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The present invention relates to the use of an alphalbetal function blocking antibody capable of binding the present epitope of human alphal integrin domain (VLA-1). The antibody of the present invention is useful for treating an inflammatory disorder e.g. rheumatoid arthritis, skin related conditions such as psoriasis, eczema, burns and dermatitis, asthma, bronchitis, menstrual cramps, tredintis, bursitis, and the treatment of pain and headaches, or as an antipyretic, for the treatment of fever, gastrointestinal conditions such as inflammatory bowel diseases, Crohn's disease, gastritis and vascular diseases, migraine headaches, perlarteritis nodosa, thyroiditis, aplastic anaemia, Hodgkin's

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention provides methods for reduction or inhibition of wound contraction that comprises administration of a peptide having more than 3 consecutive basic amino acid residues. Alternatively, the peptide contains the amino acid sequence Arg-Gly-Asp and a basic amino acid sequence. Arg-Gly-Asp and a basic amino acid out of a sequence of consecutive amino acids in which at least 4 out of a sequence of consecutive amino acids in which at least formation which, in the case of large wounds, can result in loss of joint morphism in a major body deformation. Sequences AAW86170 to AAW86183 represent specifically claimed examples of peptides that can be used in the method of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Inhibition of wound contraction - with peptide derivatives rich in basic
ussease, rneumatic fever, type I diabetes, myasthenia gravis, multiple sclerosis, sarcoidosis, nephrotic syndrome, myocardial ischaemia, allergic rhinitis, respiratory distress syndrome, endotoxin shock syndrome and atherosclerosis
                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                        Wound contraction, reduction, inhibition, tissue regeneration, scar, wound; joint motion, body deformation.
                                                                                                                                                   ö
                                                                                                                                                                                                                                                                                                                                                                             Peptide used in a method for inhibiting wound contraction.
                                                                                                                      Length 6;
                                                                                                                                                 Indels
                                                                                                                     100.0%; Score 31; DB 4; L
100.0%; Pred. No. 1.4e+06;
iive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note= "N-terminal acetylation"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 11; Col 24; 16pp; English.
                                                                                                                                                                                                                                                                                     AAW86183 standard; peptide; 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      95US-00473025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   94US-00234979
                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Polarek J, Schreiber R;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1999-080478/07.
                                                                                                                     Query Match
Best Local Similarity
Matches 6; Conserv
                                                                                                                                                                                 1 VORGGR 6
                                                                                                                                                                                                             VORGGR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 6 AA;
                                                                                          Sequence 6 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Key
Modified-site
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-APR-1994;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        amino acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US5851994-A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                   AAW86183;
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Genotyping an alpha-2B, 2A, or 2C adrenergic receptor gene useful for determining whether an individual is at increased risk of developing a disease associated with the corresponding receptor comprises detecting
                                                                                                                  Human, genotyping, alpha-2B, alpha-2A; alpha-2C; adrenergic receptor; polymorphic slte; allelic variant; oardiovascular disease; central nervous system disease; adenylyl cyclase; MAP kinase activity; phosphorylation; inositol phosphate; alpha-2CAR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 74.2%; Score 23; DB 4; Length 6; Best Local Similarity 80.0%; Pred. No. 1.4e+06; Matches 4; Conservative 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                    Example 15-21; Page 103; 163pp; English.
                                                 AAM52128 standard; peptide; 6 AA
                                                                                                                                                                                                                             17-APR-2000; 2000US-00551744.
10-AUG-2000; 2000US-00636259.
19-OCT-2000; 2000US-00692077.
                                                                                                                                                                                                              .7-APR-2001; 2001WO-US012575
                                                                                  (first entry)
                                                                                                   Human alpha-2CAR peptide.
                                                                                                                                                                                                                                                                                         Small KM;
                                                                                                                                                                                                                                                               m
                                                                                                                                                                                                                                                                                                         WPI; 2001-611728/70.
                                                                                                                                                                                                                                                               (LIGG/) LIGGETT S (SMAL/) SMALL K M.
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RRGGR 6
                                                                                                                                                                                                                                                                                                                                                  polymorphic site
                                                                                                                                                                             WO200179561-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 6 AA;
                                                                                                                                                             Homo sapiens.
                                                                                  18-FEB-2002
                                                                                                                                                                                              25-OCT-2001.
                                                                                                                                                                                                                                                                                        Liggett SB,
                                                                  AAM52128;
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Gaps

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Query Match
74.2%; Score 23; DB 2; Length 6;
Best Local Similarity 80.0%; Pred. No. 1.4e+06;
Matches 4; Conservative 1; Mismatches 0; Indels

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ORGGR

N ч 18-DEC-2003 (first entry)

ADC15546;

WO2003067212-A2.

Synthetic

14-AUG-2003

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The peptide derivs. of the invention, of which AAP40372-P40375 are examples, are useful as substrates for colorimetric detection and quantification of hydrolytic enzymes of class 3.4.21 (Which split the B to 4-nitroanilide bond). They are more specific of known substrates for certain enzymes, esp. thrombin, plasmin, kallikrein, Factor Xa, urokinase and C1-esterase. (Updated on 03-OCT-2002 to add missing OS field.)
                                                                                                                                                                                                                                          Chromogenic substrate; hydrolytic enzyme; N-4-nitrophenyl oligopeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-4-nitrophenyl oligopeptide derivs. - as chromogenic substrates for selective assay of protease e.g. thrombin.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Enzyme inhibitor; t-PA; u-PA; chymotrypsin; serine protease; active; latent; substrate subtraction phage display peptide library; identification; kinase; phosphatase; serpin.
                                                                                                                                                                                                                                                                                                                                                                                                                   /label= Arg-2-methoxy-pNA, Arg-2-butoxy-pNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61.3%; Score 19; DB 1; Length 4; 75.0%; Pred. No. 1.4e+06; 1; Mismatches 0; Indels
                                                                                                                                                                                                Sequence of N-4-nitrophenyl oligopeptide deriv.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Table IX, Page 38; 47pp; German.
                                                                                                                                                                                                                                                                                                                                                                         /label= H-Lys(Z), Boc-Lys(Z)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Enzyme inhibitor peptide SEQ ID NO:78.
                                                                                                                                                                                                                                                                                                                               Location/Qualifiers
                                            AAP40375 standard; peptide; 4 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAW56877 standard; peptide; 6 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (BEHW ) BEHRINGWERKE AG. (BEHR ) BALDWIN EHRET HILL INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Teetz V;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 82DE-03244030.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         82DE-03244030.
                                                                                                                                 (revised)
(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1984-141204/23
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 27-NOV-1982;
                                                                                                                              03-OCT-2002
31-JAN-1992
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-JUL-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                DE3244030-A
                                                                                                                                                                                                                                                                                       Synthetic.
                                                                                      AAP40375;
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RESULT 5
AAP40375
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a method for assaying target analyte(s). The strain interference is provided by a solid support (s1). The method involves assaying target analyte(s) (A) in a sample comprises providing (involves assaying target analyte(s) (A) bound to a solid support, where the support is porous, the ligand (s) bound within the pores of the support ability, and the pores sterically interfere with the ability of the binding ligand to bind in the ference of the support analyte(s) to all other binding ligand(s). The method is officiently capable of simultaneously assaying multiple different analytes and permits each target analyte to be assayed within a dynamic analytes. The method permits assays to be conducted within their dynamic range without a need to dilute the reactants, therefore, achieving a virtual dilution. The method permits as low concentration analytes in the same reaction mixture as low concentration analytes in the same reaction analytes are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          concentration analytes therefore, reducing the number of separate analyses necessary to complete a full clinical menu. The measurement does not require problematic low-affinity receptors and does not significantly affect other analyses in the reaction mixture. The current sequence represents a leaving group peptide for use in a cellprobe reagent for assaying enzyme activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Assaying target analytes in a sample comprises determining the extent of binding between the target analyte and the solid support-bound ligand of the analyte useful for conducting multiplexed assays of multiple analytes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           71.0%; Score 22; DB 7; Le
100.0%; Pred. No. 1.4e+06;
ive 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                    Assay; binding; target; analyte; enyme activity.
                                                                                                                                                                                                                                                                                                       Rho 110 labelled leaving group peptide #2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Page 32; 48pp; English.
                                                                                                                                                                      ADC15546 standard; peptide; 6 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-JAN-2003; 2003WO-US001497.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            08-FEB-2002; 2002US-00071395
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (BECI ) BECKMAN COULTER INC.
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WPI; 2003-689583/65.

Sell ML;

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Gaps

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Conservative

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RGGR

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Query Match Best Local Similarity 4; Conserv

assaying enzyme

Sequence 6 AA;

for

protease

us-10-625-260-8.closed.rag

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The specification describes a composition for reducing an interaction between Bob and gpl20. The composition comprises a Bob inhibitor that binds a region of Bob, or a substance that interacts with N-terminal sequence of the first loop or the first extracellular loop domains of Bob (the substance binds Bob preferentially over galactosyl ceramide). The composition is useful for reducing an interaction between Bob and gpl20, reducing activation of lymphocytes by gpl20, reducing the symptoms of HIV entercopathy, HIV nephropathy, HIV-related hyperlipidemia, or HIV-related infertility. The present sequence is derived from a gpl20 protein V3 loop
                                                                                                                                                                                                                                                                                         Novel composition for reducing interactions between Bob and gpl20 and reducing symptoms of HIV enteropathy, HIV nephropathy or HIV-related infertility, comprises a Bob inhibitor that binds a region of Bob.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Folic acid analogue; antibody conjugate; cellular disorder; chorioma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61.3%; Score 19; DB 6; Length 6; 75.0%; Pred. No. 1.4e+06; rive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Folic acid analogue for antibody conjugate (II).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Rodwell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lopes AD,
                                                                                                                                                                                                                                                                                                                                                                                     Claim 69; Page 136; 159pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAP71469 standard; protein; 5 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       87WO-US000992.
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                                                                 25-OCT-2002; 2002WO-US034336.
                                                                                                          29-OCT-2001; 2001US-0341045P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nydatiform mole; lung cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Coughlin DJ, Radcliffe RD,
                                                                                                                                                       (UTAH ) UNIV UTAH RES FOUND.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity 75.0
Matches 3; Conservative
                                                                                                                                                                                                     Clayton F, Fantini J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (CYTO-) CYTOGEN CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 1987-334880/47.
                                                                                                                                                                                                                                              WPI; 2003-430463/40.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 6 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 VORG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-MAY-1987;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   08-MAY-1986;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-MAY-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO8706837-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19-NOV-1987
                     08-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAP71469;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAP71469
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence represents an enzyme inhibitor peptide used in the method of the invention to distinguish between t-PA and u-PA. The present invention describes a substrate subtraction library for the invention of peptide substrates selective between a first enzyme (E1) and a second enzyme (E2), comprising a collection different peptides, substantially lacking peptides that are effective substrates of the substrates selective between a first enzyme (E1) and a second enzyme (E2), comprising the farst enzyme (E3) and a second enzyme (E2), (2) a compound comprising the amino acid sequence of a peptide (E2), (2) a polypeptide for use as an enzyme inhibitor comprising one of 237 amino acid sequences (see AAM36801 to AAM56947, and AAM56949 to AAM57038); (4) a recombinant DNA vector comprising DNA (1) another substrates inhibitor including the sequence identified by the M1; (5) a prokaryotic or eukaryotic cell containing the vector of (4); (6) an antibody (Ab) immunoreactive with at least one of the peptides identified by M1; and (7) a diagnostic assay for distinguishing between active and latent forms of proteases inhibitors, that uses (Ab). The library and method are used for distinguishing between active and latent forms of proteases, kinases and phosphatases.

(Ab) are used for affinity purification of recombinant peptides and in the identification of naturally occurring protease inhibitors. Enzyme.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0; Gaps
                                                                                                                                                                                                                                                                                                                                                           Substrate subtraction phage display peptide libraries - used to distinguish between active and latent forms of enzyme, e.g. serine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Antigen, Bob, gpl20, lymphocyte, HIV enteropathy, HIV nephropathy, HIV-related hyperlipidemia, HIV-related infertility,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 19; DB 2; Length 6; Pred. No. 1.4e+06; 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Peptide derived from HIV gp120 V3 loop.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 25; Page 66; 138pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        or a disorder of serine proteases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABR55440 standard; peptide; 6 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 75.0%;
Matches 3; Conservative
                                                                                                                                  97WO-US009760
                                                                                                                                                                             96US-0019495P
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                                                                                                                                                                                                                        (SCRI ) SCRIPPS RES INST
                                                                                                                                                                                                                                                                                                               WPI; 1998-062746/06.
                                                                                                                                                                                                                                                                      Ke S;
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Homo sapiens.
                                        WO9747314-A1
                                                                                                                               10-JUN-1997;
                                                                                                                                                                             10-JUN-1996;
                                                                                                                                                                                                                                                                    Madison EL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-JUL-2003
                                                                                      18-DEC-1997
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Gaps

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Antibody-folic acid analogue conjugates - prepd. from an amine-contg. analogue deriv. and oxidised carbohydrate moiety of antibody or fragment.

Claim 9; Page 48; 59pp; English.

Human immunodeficiency virus

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6 g ABR55440;

PXSXXXXXXXXXXXXX

RESULT 7 ABR55440 WO2003037251-A2.

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pharmaceutical production. The present sequence is a specific example of
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Matches
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AAR86432
AAR
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New peptides of formula R1-X-R2 are provided, together with their conjugates with peptides, proteins, biomolecules and macromolecules, their complexes with metal ions and their water-soluble salters; where is a chain of up to 20 alpha, beta, and/or gamma amino acid residues, including at least one Met, Arg, Lys or Asn but no Cys; R1 is H or a hydrocarbyl or acyl group, or a bond to a conjugate; and R2 is OH, hydrocarbyloxy or an optionally substituted amine group (forming an amide), or a bond to a conjugate. The peptides are useful when complexed to a metal (e.g. 99m-Tc) for in-vivo diagnostic imaging and therapy of tumours, organs and foci of inflammation. Conjugates of the peptides can be targetted to specific tissues A particular application is imaging of atherosclerotic plaque. Metal is bound with good in-vivo stability; antherosclerotic plaque. Metal is bound with good in-vivo stability; subbound material is rapidly cleared; and there is no allergic reaction. Since the peptides are free of Cys, they can be prepared simply and can be presented in the form of a kit for radio-
                                                                                                                                                                                                                                                                     ·.
                 The Lys1 end group is methotrexate, and the Tyr4 end group is aminopterin gamma-hydrazide. The conjugate is immunoreactive with and immunospecific for a target site associated with a cellular disorder, eg uterine choriocarcinoma, choriadenoma distruens, hydatiform mole, acute and subsactue lewkemia, Leukaemic meningitis, lymphosarcoma, mycosis fungoides, lung cancers esp. aquamous and small types, osteogenic sarcoma and certain tumours of the head, neck and pelvis. See also AAP71468
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hoehne W, Kramk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New cysteine-free peptide(s) and their metal ion complexes - opt. conjugated to targetting agent, useful for in vivo imaging of tumours, atherosclerotic plaque etc. and for radiotherapy.
                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 diagnostic imaging; atherosclerotic plaque; tumour; inflammation; conjugate; radiotherapy; cysteine-free; metal-binding.
                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dinkelborg L, Erber S, Froemmel C, Hoehne Malin R, Schier H, Schneider-Mergener J,
                                                                                                                                                                                                                            Length 5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cysteine-free metal-binding peptide for in-vivo imaging
                                                                                                                                                                                                                     Score 18; DB 1; I
Pred. No. 1.4e+06;
I; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (UYBE-) UNIV BERLIN INST DIAGNOSTIKFORSCHUNG
                                                                                                                                                                                                                                                                                                                                                                                                                                                    AAR86432 standard; peptide; 6 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 6; Page 18; 25pp; German.
                                                                                                                                                                                                                       58.1%;
75.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                   3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 1995-171400/23.
                                                                                                                                                                                                                          Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                         2 QRGG 5
                                                                                                                                                                                                                                                                                                                                                KRGG 4
                                                                                                                                                                                 Sequence 5 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-NOV-1993;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conrad J, I
Kuettner G,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                04-MAY-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New variants of heregulin, useful e.g. for treating cancer, comprises specific amino acid alterations that increase affinity for ErbB
                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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                                  58.1%; Score 18; DB 2; Length 6; 75.0%; Pred. No. 1.4e+06; ive 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Wells JA,
                                                                                                                                                                                                                                                                                                                                                                                                   Heregulin; ErbB receptor; transplantation; cancer;
nervous system disease; musculature; epithelium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 18; DB 3; I
Pred. No. 1.4e+06;
); Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ballinger MD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  58.1%; Scor.
80.0%; Pred
                                                                                                                                                                                                                                              AAB36754 standard; peptide; 6 AA.
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                                                                                                                                                                                                                                                                                                                                                            HRG-betal library B variant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Fairbrother WJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08-MAY-2002 (first entry)
                                                                                                                                                                                                                                                                                                                    16-FEB-2001 (first entry)
              Ouery Match
Best Local Similarity 75.0
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Best Local Similarity
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                                                                                                              2 QRGG 5
                                                                                                                                                                                                                                                                                                                                                                                                   Heregulin; ErbB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 VQRGG
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Sequence 6 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 6 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unidentified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-FEB-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24-OCT-2000.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Jones JT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      receptors.
                                                                                                                                                                                                                                                                                  AAB36754;
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AAU84117
                                                                                                                                                                                                        RESULT 10
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(MASI ) MASSACHUSETTS INST TECHNOLOGY.
                                                                                                              16-MAY-2000; 2000US-0204509P.
                                                                           16-MAY-2001; 2001WO-US015718.
WO200188197-A2
                                     22-NOV-2001
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present invention relates to methods for interaction trap assays for detecting protein. P
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                                                                                                                                                                                                                                                                                                                                                                                                                                 Interaction trap assays to detect protein-protein, protein-DNA, protein-RNA interaction by using reporter genes which upon expression confer growth advantage on host cell or result in detectable fluorescent signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Interaction trap assay, protein-protein interaction, TRS, DBD, protein-DNA interaction, or protein-RNA interaction, DNA binding domain, transcriptional regulatory sequence, zinc finger domain.
                                   Interaction trap assay, protein-protein interaction, TRS, DBD, protein-DNA interaction, or protein-RNA interaction, DNA binding domain, transcriptional regulatory sequence; zinc finger domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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Pred. No. 1.4e+06;
1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Zinc finger recognition helix peptide sequence #13.
Zinc finger recognition helix peptide sequence #17.
                                                                                                                                                                                                                                                                                                              (MASI ) MASSACHUSETTS INST TECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 1; Fig 3A; 196pp; English
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                                                                                                                                                                                                                                                                                                                                                      Pabo CO;
                                                                                                                                                                                                                                                                         16-MAY-2000; 2000US-0204509P.
                                                                                                                                                                                                                                   16-MAY-2001; 2001WO-US015718
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Best Local Similarity 60..
3; Conservative
                                                                                                                                                                                                                                                                                                                                                    Joung JK, Miller J,
                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2002-083007/11
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                                                                                                                                                                                             22-NOV-2001
                                                                                                                  Synthetic.
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The present invention relates to methods for interaction trap assays for detecting protein-protein, protein-DNA, or protein-RNA interactions. The method involves selecting an interacting pair of test polypeptides, and using a population of prokaryotic cells which contain a reporter gene coprably linked to a transcriptional regulatory sequence (TRS) which contains binding sites (DNA binding domain (DBD) recognition elements) for locates binding sites (DNA binding domain (DBD) recognition elements) for DBD and a chimeric gene encoding a fusion protein that includes the DBD and test polypeptide. The methods of the invention are useful for carbohydrate, natural product extract library or small organic molecule. The methods are also useful for selecting test agents that differentially condulate the interaction of a polypeptide with at least two different the interaction of the polypeptide with at least two different DNA capture captures agents agents and addition sequences. Addition of the polypeptide with at least two different DNA capture can bind to DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ö
                                                                                                      Interaction trap assays to detect protein-protein, protein-DNA, protein-RNA interaction by using reporter genes which upon expression confer growth advantage on host cell or result in detectable fluorescent signal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Interaction trap assay; protein-protein interaction; TRS; DBD; protein-DNA interaction; DNA binding domain; transcriptional regulatory sequence; zinc finger domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           58.1%; Score 18; DB 5; Length 6; 60.0%; Pred. No. 1.4e+06; ive 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Zinc finger recognition helix peptide sequence #12.
                                                                                                                                                                                                                    Example 1; Fig 3A; 196pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      3; Conservative
Joung JK, Miller J,
                                                    WPI; 2002-083007/11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 6 AA;
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16-MAY-2001; 2001WO-US015718
                                                                                                                                                                                                                                 16-MAY-2000; 2000US-0204509P
                                                                                                                                                                       08-MAY-2002 (first entry)
                                                                                                                                                                                                                                               Joung JK, Miller J,
       Joung JK, Miller J,
                                                                                                   that can bind to DNA
                                                                                                                                                                                                                                                      WPI; 2002-083007/11.
              WPI; 2002-083007/11
                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                2 QRGGR 6
                                                                                                                                    1 ORGNK 5
                                                                                                                                                                                                           WO200188197-A2
                                                                                                           Sequence 6 AA;
                                                                                                                                                                                                                   22-NOV-2001
                                                                                                                                                                                                    Synthetic
                                                                                                                                                 Matches
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The present invention relates to methods for interaction trap assays for detecting protein.protein, protein.DNA, or protein.RNA interactions. The method involves selecting an interacting pair of test polypeptides, and using a population of prokaryotic cells which contain a reporter gene operably linked to a transcriptional regulatory sequence (TRS) which includes binding sites (DNA binding domain (DBD) recognition elements) for DBD, and a chimeric gene encoding a fusion protein that includes the DBD and test polypeptide. The methods of the invention are useful for selecting test agents that modulate protein.protein, protein-DNA, or protein.RNA interactions. The test agent can be a peptide, mucleic acid, carbohydrate, natural product extract library or small organic molecule. The methods are also useful for selecting test agents that differentially modulate the interaction of a polypeptide with at least two different test polypeptides or selecting a test agent that differentially modulates the interaction of the polypeptide with at least two different DNA is sequences.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New targeting peptides identified by phage display, useful for treating a disease state, e.g. cancer, diabetes, inflammatory disease, atherosclerosis, autoimmune disease, bacterial or viral infection or cardicovascular disease.
      growth advantage on host cell or result in detectable fluorescent signal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Targetting peptide selective for human organ, tissue or cell type #370.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human, cytostatic, antiinflammatory; antidiabetic; cardiovascular; immunomodulator; antibacterial; antiviral; gene therapy; cancer; arthritis; diabetes; inflammatory disease; atherosclerosis; autoimmune disease; bacterial infection; viral infection; cardiovascular disease; degenerative disease.
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Pred. No. 1.4e+06;
1; Mismatches 1; Indels
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                                                                       Example 1; Fig 3A; 196pp; English.
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17-JAN-2001; 2001US-00765101.
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Best Local Similarity 60.0
Matches 3; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               that can bind to DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 6 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     detecting protein-protein, protein-DNA, or protein-RNA interactions. The method involves selecting an interacting pair of test polypeptides, and using a population of prokaryotic cells which contain a reporter gene operably linked to a transcriptional regulatory sequence (TRS) which includes binding sites (DNA binding domain (DBD) recognition elements) for DBD, and a chimaric gene encoding a fusion protein that includes the DBD and test polypeptide. The methods of the invention are useful for selecting test agents that modulate protein-protein, protein-DNA, or protein-RNA interactions. The test agent can be a peptide, mucleic acid, carbohydrate, natural product extract library or small organic molecule. The methods are also useful for selecting test agents that differentially modulate the interaction of a polypeptide with at least two different test polypeptides or selecting a test agent that differentially modulates the interaction of the polypeptide with at least two different test perfection of the polypeptide with at least two different by the interaction of the polypeptide with at least two different by the interaction of the polypeptide with at least two different by the interaction of the polypeptide with at least two different by the interaction of the polypeptide with at least two different by the content of the polypeptide with at least two different by the content of the polypeptide with at least two different by the content of the polypeptide with at least two different by the content of the polypeptide with at least two different by the content of the polypeptide with at least two different by the content of the polypeptide with at least two different by the content of the polypeptide with at least two different by the content of the polypeptide with at least two different by the content of the polypeptide with at least two different by the content of the polypeptide with at least two different by the content of the polypeptide with at least two different by the content of the polypeptide with at l
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                                                                                                                                                                                      Interaction trap assays to detect protein-protein, protein-DNA, protein-RNA interaction by using reporter genes which upon expression confer growth advantage on host cell or result in detectable fluorescent signal.
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                                                                                                                                                                                                                                                                                                                                                                                    present invention relates to methods for interaction trap assays for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Interaction trap assays to detect protein-protein, protein-DNA, protein-RNA interaction by using reporter genes which upon expression confer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Zinc finger recognition helix peptide sequence #18.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 18; DB 5; I
Pred. No. 1.4e+06;
1; Mismatches 1;
(MASI ) MASSACHUSETTS INST TECHNOLOGY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (MASI ) MASSACHUSETTS INST TECHNOLOGY.
                                                                                                                                                                                                                                                                                                                       Example 1; Fig 3A; 196pp; English
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60.0%;
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The invention describes an isolated peptide of 100 amino acids or less in size. The peptide is useful for treating a disease state, e.g. cancer, arthritis, diabetes, inflammatory disease, atherosclerosis, autoimmune disease, bacterial inflammatory alientetion, cardiovascular disease or degenerative disease. This sequence represents a human targeting peptide selective for human organs, tissues or cell types
      888888888
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Sequence 3 AA;

ö Gaps . 0 Query Match 54.8%; Score 17; DB 5; Length 3; Best Local Similarity 100.0%; Pred. No. 1.4e+06; Matches 3; Conservative 0; Mismatches 0; Indels

8 QQ

Search completed: April 15, 2004, 10:36:34 Job time : 58 secs

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Sequence 54, Appl
Sequence 71, Appl
Sequence 7, Appli
Sequence 7, Appli
Sequence 5, Appli
Sequence 5, Appli
Sequence 57, Appli
Sequence 7, Appli
Sequence 7, Appli
Sequence 7, Appli
Sequence 152, Appli
Sequence 31, Appli
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 55, Appl
Sequence 56, Appl
Sequence 57, Appl
  Sequence 55,
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Patent No. US20020146417A1;
GENERAL INPORMATION:
APPLICANT: Biogen, Inc.
APPLICANT: De Fougarolies, Antonin;
APPLICANT: Gotwals, Philip
APPLICANT: Lobb, Roy
APPLICANT: Koteliansky, Victor
ITIES OF INVENTION: Method for the Treatment of Inflammatory;
TITLE OF INVENTION: Disorders
FILE REFERENCE: A076FCT
CURRENT APPLICATION NUMBER: US/09/996,738
CURRENT FILING DATE: 2001-11-30;
PRIOR APPLICATION NUMBER: 60/18536
PRIOR APPLICATION NUMBER: 60/18536
PRIOR FILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 9
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 8
LENGTH: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%; Score 31; DB 9; Length 6; 100.0%; Pred. No. 1e+06; ive 0; Mismatches 0; Indels
                     US-10-464-302-64

US-09-747A-54

US-09-79-233-1

US-09-925-796-7

US-09-925-796-7

US-09-947-387-55

US-09-947-387-55

US-09-947-387-56

US-09-947-387-56

US-09-947-387-57

US-09-947-387-57

US-09-947-387-57

US-09-947-387-57

US-10-029-206A-152

US-10-029-206A-152

US-10-029-206A-152

US-10-138-375-56

US-10-138-375-56

US-09-947-387-96

US-09-947-387-101

US-09-947-387-101

US-09-947-387-101

US-09-947-387-102

US-09-947-387-103

US-09-947-387-103

US-09-947-387-103

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US-09-947-387-103
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US-09-996-738-8
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Best Local Similarity
Matches 6; Conserv
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US-09-996-738-9
  TYPE: PRT
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Sequence 9, Appli
Sequence 8, Appli
Sequence 51, Appl
Sequence 58, Appl
Sequence 68, Appl
Sequence 78, Appl
Sequence 30, Appl
Sequence 31, Appl
                                                                                                                                                          April 15, 2004, 10:37:52; Search time 41 Seconds (without alignments) 40.342 Million cell updates/sec
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1: \cgn2 \( \) \cgn2 \( \) \cgn \( \)
                     GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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US-09-996-738-9
US-10-65-260-8
US-10-001-073-51
US-10-464-302-58
US-10-464-302-58
US-10-464-302-59
US-10-464-302-59
US-09-990-762-31
US-09-990-762-31
US-09-990-762-42
US-09-990-762-42
US-09-980-762-42
US-09-980-762-42
US-09-980-762-42
US-09-980-762-42
US-09-980-762-42
US-09-986-8858-812A-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  1124875 seqs, 275673149 residues
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                     - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                               Gapop 10.0 , Gapext 0.5
                                                                                                                                                                                                                                                                     US-10-625-260-8
31
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Match Length
                                                                                                                                                                                                                                                                                                                     1 VORGGR 6
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                                                                                                                                                                                                                                                                                                                                                                          BLOSUM62
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1000.0
1000.0
67.7
61.3
61.3
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                                                                                                                                                                                                                                                                                                                                                                          Scoring table:
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                                                                                                                                                                                                                                                                                                                       Sequence:
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                                                                                                                                                                                                                                                                  Title:
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Publication No. US20030113725A1

Publication No. US20030113725A1

GENERAL INFORMATION:

APPLICANT: Ligger Stephen

TITLE OF INVENTION: Alpha-2-adrenergic receptor polymorphisms

TITLE OF INVENTION: Alpha-2-adrenergic receptor polymorphisms

TITLE OF INVENTION: Alpha-2-adrenergic receptor polymorphisms

CURRENT PILING DATE: 2001-11-01

NUMBER OF SEQ ID NOS: 53

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 51

LENGTH: 6
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APPLICANT: Gotwals, Philip
APPLICANT: Koteliansky, Victor
TITLE OF INVENTION: Method for the Treatment of Fibrosis
FILE REFERENCE: A073US the Treatment of Fibrosis
CURRENT APPLICATION NUMBER: US/10/061,658
CURRENT FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: 60/137,214
PRIOR APPLICATION NUMBER: 60/137,214
PRIOR FILING DATE: 1999-06-01
PRIOR FILING DATE: 1999-04-02
NUMBER OF ESQ ID NOS: 10
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 8
                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%; Score 31; DB 13; Length 6; 100.0%; Pred. No. 1e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 23; DB 14; Length 6; Pred. No. 1e+06; 1; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                              0; Indels
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Publication No. US20030207349A1
GENERAL INFORMATION:
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80.0%;
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APPLICANT: Beresini, Maureen
APPLICANT: DeForge, Laura
APPLICANT: Desnoyers, Luc
APPLICANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gao, Wei-Qiang
Gerritsen, Mary E.
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Godowski, Paul J.
Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity 100.
Matches 6; Conservative
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Best Local Similarity 80.0
Matches 4; Conservative
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ORGANISM: Homo sapiens
US-10-001-073-51
                                                                                                                                                                                                                                                                                                                             ; TYPE: PRT
; ORGANISM: Homo sapien
US-10-061-658-8
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1 RRGGR 5
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US-10-137-867-58
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APPLICANT:
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0
                                                                  GENERAL INFORMATION.

APPLICANT: Biogen, Inc.
APPLICANT: De Fougerolles, Antonin
APPLICANT: Cobals, Philip
APPLICANT: Cobb, ROY
APPLICANT: Cobb, ROY
APPLICANT: Moteliansky, Victor
ITILE OF INVENTION: Method for the Treatment of Inflammatory;
ITILE OF INVENTION: Method for the Treatment of Inflammatory;
ITILE OF INVENTION: Method for the Treatment of Inflammatory;
ITILE OF INVENTION: Disorders
CURRENT APPLICATION NUMBER: 00/18536
FRIOR PEDITOR TOWNER: 60/18536
FRIOR PEDITOR TOWNER: 60/18536
FRIOR APPLICATION NUMBER: 60/137038
FRIOR APPLICATION NUMBER: 60/137038
FRIOR PILING DATE: 1999-06-01
NUMBER OF SEQ ID NOS: 9
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%; Score 31; DB 12; Length 6; 100.0%; Pred. No. 1e+06; tive 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 8, Application US/10625260

Publication No. US20040037827A1

GENERAL INFORMATION:

APPLICANT: Biogen, Inc.

APPLICANT: Koteliansky, Vactor

ITILE OF INVENTOR: Wethod for the Treatment of Fibrosis

FILE REFERENCE: A073US

CURRENT FILING DATE: 1999-06-01

PRIOR FILING DATE: 1999-06-01

PRIOR FILING DATE: 1999-04-22

NUMBER OF SEQ ID NOS: 10

SOFTWARE FRASESE FOR Windows Version 4.0

SEQ ID NO 8
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         Sequence 9, Application US/09996738 Patent No. US20020146417A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best Local Similarity 100.
Matches 6; Conservative
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Best Local Similarity 100.
Matches 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: PRT
ORGANISM: Homo Sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TYPE: PRT
CORGANISM: Homo sapien
US-10-625-260-8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 VORGGR 6
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US-10-061-658-8
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US-10-625-260-8
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Sherwood, Steven

APPLICANT: Biogen, Inc

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1e+06;
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Pred. No. 1e+06
1; Mismatches
CURRENT FILING DATE: 2003-06-17
PRIOR APPLICATION NUMBER: 09/629,719
PRIOR FILING DATE: 2000-08-01
NUMBER OF SEQ ID NOS: 83
SOFTWARE: PATENTIN Ver: 2.1
SEQ ID NO 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: 09/858,852
PRIOR FILING DATE: 2001-05-16
PRIOR APPLICATION NUMBER: 60/204,509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 78, Application US/10348232
Publication No. US20030186329A1
GENERAL INFORMATION:
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Best Local Similarity 75.0%;
Matches 3; Conservative
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75.0%;
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Best Local Similarity 75.0
Matches 3, Conservative
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1 RGGK 4
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US-10-348-232-78
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US-09-990-762-30
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                                                           APPLICANT: Chang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACTIOS ENCODING THE SAME
FILE REFERENCE: P3330RAC146
CURRENT APPLICATION NUMBER: US/10/137,867
CURRENT PILING DATE: 2002-05-03
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 550
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 59, Application US/10464302
| Sequence 59, Application US/10464302
| Publication No. US2004003775A1
| GENERAL INFORMATION:
| APPLICANT: SIAHAAN, TERUNA J.
| APPLICANT: AUDERSON, MEAGAN
| APPLICANT: AUDICATION UNDARR: US/10/464,302
| FILE REFERENCE: 23838-08028
| FILE REFERENCE: 2083-06028
| FILE REFERENCE: 2083-06028
| FILE REFERENCE: 2083-06-17
| PRIOR APPLICATION NUMBER: 09/629,719
| PRIOR FILING DATE: 2000-08-01
| NUMBER OF SEQ ID NOS: 83
| SOFTWARE: PARENTING VET: 2.1
| SEQ ID NOS: 83
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Sequence 68, Application US/10464302
Publication No. US2004003775A1
Publication No. US2004003775A1
SEQUENCE ADDITION:
APPLICANT: SIAHAAN, TERUNA J.
APPLICANT: AUGUSTONSAN, HELENA
APPLICANT: AUGUSTONSON, MARGGNA
APPLICANT: AUGUSTON CHRISTINE
TITLE OF INVENTION: LEUKOCYTE INTERNALIZED PEPTIDE-DRUG CONJUGATES
FILE REPERENCE: 23838-08028
CURRENT APPLICATION NUMBER: US/10/464,302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURE:
//OTHER INFORMATION: Description of Artificial Sequence: Synthetic
// OTHER INFORMATION: peptide
US-10-464-302-S9
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ilarity 75.0%;
Conservative 1
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ORGANISM: Artificial Sequence
Tumas, Daniel
Watanabe, Colin K
Wood, William
                                                                                                                                                                                                                                                                                                                                                                                                                             3; Conservative
                                                                                                                                                                                                                                                                                         ; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-137-867-58
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Best Local Similarity
'Local 3; Conserve
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Best Local Similarity
Matches 3; Conserv
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1 IERSGR 6
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STATEGANT: Madison, Edwin L.
APPLICANT: Madison, Edwin L.
APPLICANT: Madison, Edwin L.
APPLICANT: Madison, Edwin L.
APPLICANT: Madison, Edwin L.
TITLE OF INVENTION: USE OF SUBSTRATE SUBTRACTION LIBRARIES TO DISTINGUISH
TITLE OF INVENTION: BNZYME SPECIFICITIES
FILE REFERENCE: TSRI 543.1C1
CURRENT APPLICATION NUMBER: US/10/348,232
CURRENT PILING DATE: 1999-03-02
PRIOR FILING DATE: 1999-03-02
PRIOR FILING DATE: 1999-03-02
PRIOR PELICATION NUMBER: PCT/US97/09760
PRIOR FILING DATE: 1997-06-10
PRIOR FILING DATE: 1997-06-10
PRIOR FILING DATE: 1996-06-10
NUMBER OF SEQ ID NOS: 244
SOFTWARE: Patentin Ver: 2.1
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Parent No. US20020119498A1
GENERAL INFORMATION:
APPLICANT: JOUNG, J. KEITH
APPLICANT: JOUNG, J. KEITH
APPLICANT: MILER, JEFFREX
APPLICANT: MILLER, JEFFREX
APPLICANT: PABO, CARL O.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INTERACTION TRAP ASSAYS
CURRENT APPLICATION NUMBER: 105/09/990,762
CURRENT FILING DATE: 2001-11-14
                                                                                                                                                                                                                                                                          Gaps
; TYPE: PRT ; ORGANISM: Artificial Sequence ; FEATURE: ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic US-10-464-302-68
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Pred. No. 1e+06;
1; Mismatches 0; Indel
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NUMBER OF SEQ ID NOS: 97
SOFTWARR: PATENTIN Ver. 2.1
SEQ ID NO 42
LENGTH: 6
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Best Local Similarity
Matches 3; Conserv
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1 QRGNK 5
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US-09-858-852A-30
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US-09-900-762-31
US-09-900-762-31
Sequence 31, Application US/09990762
Fatent No. US20020119498A1
GENERAL INFORMATION:
APPLICANT: OUONG, J. KEITH
APPLICANT: PABO, CARL O.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INTERACTION TRAP ASSAYS
FILE REFERENCE: MTV-030.02 (20021-3002)
CURRENT APPLICATION NUMBER: US/09/990,762
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 09/88,852
PRIOR FILING DATE: 2001-05-16
PRIOR FILING DATE: 2001-05-16
PRIOR FILING DATE: 2000-05-16
NUMBER OF SEQ ID NOS: 97
SEQ ID NOS: 97
SEQ ID NOS: 97
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Sequence 42, Application US/09990762
Pacent No. US20020119498A1
APPLICANT: UNFORMATION:
APPLICANT: JOUNG, J. KEITH
APPLICANT: MILLER, JEFFEY
APPLICANT: PAGO, CARL O.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INTERACTION TRAP ASSAYS
FILE REFERENCE: MTV-030.02 (20021-3002)
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 09/858,852
PRIOR APPLICATION NUMBER: 09/858,852
PRIOR APPLICATION NUMBER: 60/204,509
PRIOR FILING DATE: 2000-05-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                                                                                                                                                                 ) OTHER INFORMATION: Description of Artificial Sequence: Zinc finger; OTHER INFORMATION: recognition sequence
US-09-990-762-30
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match 58.1%; Score 18; DB 9; Length 6; Best Local Similarity 60.0%; Pred. No. 1e+06; Matches 3; Conservative 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: PRT
ORGANISM: Artificial Sequence
                                                                                                                                                                                          TYPE: PRT ORGANISM: Artificial Sequence
       PRIOR FILING DATE: 2000-05-16
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Best Local Similarity 60.v
                                           NUMBER OF SEQ ID NOS: 97
SOFTWARE: PatentIn Ver. 2.1
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US-09-990-762-42
                                                                                                           SEQ ID NO 30
                                                                                                                                                                                                                                                                     FEATURE:
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US-00-858-852A-31
US-00-858-852A-31
Sequence 31, Application US/09858852A
Sequence 31, Application No. US20030044787A1
GENERAL INFORMATION:
TOTHER OF INVENTION: METHODS AND COMPOSITIONS FOR INTERACTION TRAP ASSAYS
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INTERACTION TRAP ASSAYS
FILE REFERENCE: MY-030.01 (20021-3001)
CURRENT APPLICATION NUMBER: US/09/858,852A
CURRENT FILING DATE: 2001-05-16
PRIOR APPLICATION NUMBER: 60/204,509
PRIOR APPLICATION NUMBER: 60/204,509
PRIOR SEQ ID NOS: 91
SOFTWARE: Patentin Ver. 2.1
SEQ ID NO 31
LENGTH: 6
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APPLICANT: JOUNG, J. KEITH
APPLICANT: MILLER, JEFFREY
APPLICANT: MILLER, JEFFREY
APPLICANT: PABO, CARL O.
TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INTERACTION TRAP ASSAYS
FILE REPERRUE: MIV-030.01 (20021-3001)
CURRENT APPLICATION NUMBER: 180/09/858,852A
CURRENT FILLING DATE: 2001-05-16
PRIOR PELLING DATE: 2000-05-16
NUMBER OF SEQ ID NOS: 91
SEQ ID NO 30
LENGTH: 6
LENGTH: 6
LENGTH: 6
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                                                                                        FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Zinc finger
JOTHER INFORMATION: recognition sequence
US-09-990-762-42
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                                                                                                                                                                                                                                                                                                                                                                                                                   1; Indels
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Pred. No. 1e+06;
                                                                                                                                                                                                                                                                                                                                                                                                                        1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 30, Application US/09858852A, Publication No. US20030044787A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                          58.1%;
TYPE: PRT
ORGANISM: Artificial Sequence
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Best Local Similarity 60.0
Matches 3; Conservative
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us-10-625-260-8.closed.rapb

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US-05-858-852A-42

| Sequence 42, Application US/0985852A
| Sequence 42, Application US/0985852A
| Sequence 42, Application No. US20030044787A1
| GENERAL INFORMATION:
| APPLICANT: OUUNG, USERIER
| APPLICANT: MILLER, JEFFREY
| APPLICANT: PABO, CARL O.
| TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR INTERACTION TRAP ASSAYS
| TITLE OF INVENTION: WETHODS AND COMPOSITIONS FOR INTERACTION TRAP ASSAYS
| CURRENT APPLICATION NUMBER: US/09/858,852A
| CURRENT FILING DATE: 2001-05-16
| RICOR FILING DATE: 2000-05-16
| NUMBER OF SEQ ID NOS: 91
| SEQ ID NO 42
| LENGTH: 6
                                                                                                                                                                                                                       0
                                                                                                                                                                                                                          Gaps
) ORGANISM: Artificial Sequence

) FEATURE:

) OTHER INFORMATION: Description of Artificial Sequence: Zinc finger

) OTHER INFORMATION: recognition sequence

US-09-858-852A-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: PRT
CRGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Zinc finger
COTHER INFORMATION: recognition sequence
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SB.1%; Score 18; DB 10; Length 6;
Best Local Similarity 60.0%; Pred. No. 1e+06;
Matches 3; Conservative 1; Mismatches 1; Indels
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Best Local Similarity 60.0%; Pred. No. 1e+06;
Matches 3; Conservative 1; Mismatches 1; Indels
                                                                                                                                                                                                                                                                              2 ORGGR 6
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1 QRGNK 5
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Search completed: April 15, 2004, 10:43:27 Job time: 41 secs

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Gaps

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77, APP11 77, APP11 11, APP11 12, APP11 15, APP11 15, APP11 15, APP11 15, APP11 15, APP11 16, APP11 17, APP11 17, APP11 18, APP11 19, APP11 10, APP11 11, APP11

Sequence Sequence Sequence

Sequence Sequence Sequence

Sequence Sequence Sequence Sequence

Sequence Sequence Sequence

Sequence Sequence Sequence

us-10-625-260-8.closed.rai

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Sequence 18, Application US/08473025
; Sequence 18, Application US/08473025
; Patent No. S851994
; GENERAL INFORMATION:
APPLICANT: Schreiber, Ronda
APPLICANT: Polarek, James
; TITLE OF INVENTION: Compositions that Inhibit Wound
; TITLE OF INVENTION: Contraction and Methods of Using Same
; TITLE OF INVENTION: Contraction and Methods of Using Same
; NUMBER OF SEQUENCE: 18
; CORRESPENDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: Campbell and Flores
; STREET: California
; COUNTRY: USA
; INFORMATION USA
; INFORMATION USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 6; Conservative 0; Mismatches 0; Indels
US-09-731-558-5
US-09-225-037-7
US-09-325-44B-7
US-09-478-681-7
US-07-917-0344-1
US-07-956-849A-1
US-07-956-849A-1
US-07-956-849A-1
US-08-257-782-38
US-08-257-782-38
US-08-277-846-38
US-08-577-846-38
US-08-577-846-38
US-08-577-846-38
US-08-577-846-38
US-08-577-846-38
US-08-677-846-38
US-08-677-846-38
US-08-677-846-38
US-08-777-846-38
US-08-777-846-38
US-08-777-846-38
US-08-777-86-38
US-08-777-846-38
US-08-777-846-38
US-08-777-846-38
US-08-777-846-38
US-08-777-846-38
US-08-777-846-38
US-08-777-956-2
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CORGANISM: Homo sapien
US-10-061-658-8
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US-08-473-025-18
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Sequence 18, Appl
Sequence 34, Appli
Sequence 54, Appli
Sequence 54, Appli
Sequence 12, Appli
Sequence 6, Appli
Sequence 6, Appli
Sequence 14, Appli
Sequence 21, Appli
Sequence 306, Appli
Sequence 398, Appli
Sequence 55, Appli
Sequence 55, Appli
Sequence 55, Appli
Sequence 56, Appli
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                                                                                                                                     April 15, 2004, 10:36:37 ; Search time 23 Seconds (without alignments) 13.468 Million cell updates/sec
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Sequence
Sequence
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(GGTZ 6/ptodata/2/iaa/5B_COMB.pep:*

(GGTZ 6/ptodata/2/iaa/5B_COMB.pep:*

(GGTZ 6/ptodata/2/iaa/6A_COMB.pep:*

(GGTZ 6/ptodata/2/iaa/6B_COMB.pep:*

(GGTZ 6/ptodata/2/iaa/BGCOMB.pep:*

(GGTZ 6/ptodata/2/iaa/PCTUS_COMB.pep:*

(GGTZ 6/ptodata/2/iaa/PCTUS_COMB.pep:*
                        GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.
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                                                                                                                                                                                                                                                                                                                                                    389414 seqs, 51625971 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                   - protein search, using sw model
                                                                                                                                                                                                                                                                                                                Gapop 10.0 , Gapext 0.5
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31
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Match Length
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Sequence:
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                                                                                                                                                                                                                                                                                                  APPLICANT: Genentech, Inc.
APPLICANT: Ballinger, Marcus D.
APPLICANT: Ballinger, Marcus D.
APPLICANT: Jones, Jennifer T.
APPLICANT: Junes, Jennifer T.
APPLICANT: Sliwkowski, Mark X.
APPLICANT: Sliwkowski, Mark X.
APPLICANT: Sliwkowski, Mark X.
APPLICANT: Wells, James A.
ITILE OF INVENTION: HEREGULIN VARIANTS
FILE REPERBING: 14918-720CONI
CURRENT APPLICATION NUMBER: US/09/02C,880A
CURRENT FILING DATE: 1998-02-09
CURRENT FILING DATE: 1999-02-01
NUMBER OF SEQ ID NOS: 116
SOFTWARE: FastSEQ for Windows Version 3:0
SEQ ID NO 54
LENGTH: 6
TYPE: PRT
CREAMISM: NO. 6136558 relevant (recombinant)
US-09-020-880-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 18; DB 3;
Pred. No. 3e+05;
0; Mismatches
       75.0%; Pred. No. 3e+05; ive 1; Mismatches
                                                                                                                                                                                                                                       Sequence 54, Application US/09020880A Patent No. 6136558 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 9, Application US/08635928 Patent No. 6291639
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COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: MS-DOS
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       Best Local Similarity 75.(
Matches 3; Conservative
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CA
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Best Local Similarity
Matches 4; Conserv
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US-09-020-880-54
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APPLICANT: Koren, Ziv Rei
APPLICANT: Koren, Ziv Rei
APPLICANT: Shmueli, Esther
APPLICANT: Perez, Vifat
APPLICANT: Perez, Vifat
APPLICANT: Gutter, Bezalel
APPLICANT: Gallili, Gilad
APPLICANT: Gallili, Gilad
APPLICANT: Goldberg, Doron
TITLE OF INVENTION: HAWORRHAGIC ENTERITIS VIRUS DNA SEQUENCES, PROTEINS ENCODED THERE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: Peptide

LOCATION: 1

OTHER INFORMATION: /note= "The amino acid, Arg, is

OTHER INFORMATION: acetylated at the N-terminal."

US-08-473-025-18
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/473,025
FILING DATE: 06-JUN-1995
CLASSIFFCATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/234,979
FILING DATE: 28-APR-1994
ATTORNEY AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 9-LA 1597
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEPHONE: (619) 535-9001
TELEPHONE: (619) 535-8999
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 6 amino acid
TYPE: amino acid
TYPE: DEFAURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 4;
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CURRENT APPLICATION NUMBER: US/09/717,364A
CURRENT FILING DATE: 2000-11-20
PRIOR APPLICATION NUMBER: IL124567
PRIOR FILING DATE: 1998-05-20
PRIOR FILING DATE: 1999-05-19
NUMBER OF SEQ ID NOS: 42
SOFTWARE: Patentin version 3.1
SEQ ID NO 36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                61.3%; Score 19;
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; ORGANISM: hemorrhagic enteritis virus
US-09-717-364A-36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 36, Application US/09717364A
Patent No. 6663872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 4; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2 QRGGR 6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
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WordPerfect 7.0

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APPLICANT: BROWN, MICHAEL S.
APPLICANT: GEROW, MICHAEL S.
APPLICANT: GEROWSHADE, PETER J.
APPLICANT: GEROWSHADE, PETER J.
APPLICANT: GEROWSHADE, DESTER J.
APPLICANT: MANGON, MOSERT H.
APPLICANT: SAKAI, JUNO
TITLE OF INVENTION: STEROL-REGULATED SITE-1 PROTEASE AND ASSAYS OF
TITLE OF INVENTION: WODULATORS THEREOF
TITLE OF INVENTION: WODULATORS THEREOF
TITLE OF INVENTION: WODER: US/09/360,237
CURRENT REPLING DATE: 1999-07-23
EARLIER APPLICATION NUMBER: 60/096,571
SARLIER APPLICATION NUMBER: 60/096,571
MUMBER OF SEQ ID NOS: 60
SOFTWARE: PARCENT USE: 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 12
LENGTH: 3
LENGTH: 3
LYPE: PATURE:
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: DESCRIPTION
US-09-360-237-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-08-100-744-6

US-08-100-744-6

Sequence 6, Application US/08100744

Patent No. 5553046

SERNERAL INFORMATION:

APPLICANT: ZHANG, SUNNY

APPLICANT: CARRILLA

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FILING DATE: 02-AUG-1993

ATTORNEY ARRAPAL

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE/DOCKET NUMBER: 22095-20275.00
                                                                                                  Sequence 12, Application US/09360237
Patent No. 6322962
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 100.
Matches 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: LUTHER, BARBARA REGISTRATION NUMBER: 3
                                                                               JS-09-360-237-12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 6;
CURRENT APPLICATION DATA.

APPLICATION NUMBER: US/08/635,928
FILING DATE: 09/20/96
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/DE94/01302
FILING DATE: 10/27/94
APPLICATION NUMBER: P4137599.5
FILING DATE: 11/01/93
ATTORNEY/AGENT INFORMATION:
NAME: MOLANO, MICHAEL A.
REGISTRATION NUMBER: 39,777
REFERENCE/DOCKET NUMBER: 39,777
RELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-362-3800
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 18; DB 3;
Pred. No. 3e+05;
1; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; ORGANISM: No. 6387638 relevant (recombinant)
US-09-101-544-54
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Genentech, Inc.
APPLICANT: Jones, Jennifer T.
APPLICANT: Sliwkowski, Mark X.
APPLICANT: Sliwkowski, Mark X.
APPLICANT: Wells, James A.
ITILE OF INVENTION: HEREGULIN VARIANTS
FILE REFERENCE: 14918-7200002
CURRENT APPLICATION NUMBER: US 09/020,880
PRIOR APPLICATION NUMBER: US 09/020,880
PRIOR PILING DATE: 1998-07-17
PRIOR PLING DATE: 1998-07-08
PRIOR FILING DATE: 1998-07-09
PRIOR FILING DATE: 1998-07-09
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NUMBER OF SEQ ID NOS: 116
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 54
LENGTH: 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 54, Application US/09101544 Patent No. 6387638
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELEPAX: 415-362-2928
INFORMATION FOR SEQ ID NO: 9: SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ouery Match
Best Local Similarity 75.0
Matches 3; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local Similarity 80.0
Matches 4; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LENGTH: 6 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     internal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TOPOLOGY: linear
MOLECULE TYPE: peptide
HYPOTHETICAL: no
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ANTI-SENSE: no FRAGMENT TYPE: i ORIGINAL SOURCE: US-08-635-928-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: amino a STRANDEDNESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2 QRGG 5
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Sequence 6, Application US/08854811
| Sequence 6, Application US/08854811
| Sequence 7, Sequence 6, Application Sequence 6, Sequence 6, Sequence 6, Sequence 6, Sequence 7, Sequence 8, APPLICANT: Olson, Pamela 8.
| APPLICANT: Olson, Pamela 8. |
| 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 14, Application US/08685589A
Patent No. 5916872
GENERAL INFORMATION:
APPLICANT: Chang, Conway
APPLICANT: Gu, Leo
APPLICANT: Chen, Jie
TITLE OF INVENTION: CYCLIC PEPTIDES HAVING BROAD
TITLE OF INVENTION: SPECTRUM ANTIMICROBIAL ACTIVITY
NUMBER OF SEQUENCES: 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COUNTER: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
COMPUTER: IBM Compatible
COMPUTER: FastSEQ for Windows
SOFTWARE: FastSEQ for Windows
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/854,811
FILING DATE: 12-MAY-1997
CLASSIFFATION NUMBER: 08/284,784
FILING DATE: 02-AUG-1994
APPLICATION NUMBER: 08/100,744
FILING DATE: 02-AUG-1993
ATTORNEY,AGENT INFORMATION:
ANTORNEY,AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NAME: Buffinger, Nicholas S
REGISTRATION NUMBER: 39,124
REFERENCE/DOCKET NUMBER: 22095-20275.21
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-813-5600
TELEFAX: 650-494-0792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELEX: 706141
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local Similarity 100.
Matches 3; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3 RGG 5
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Sequence 6, Application US/08284784

Sequence 6, Application US/08284784

Sequence 6, Application US/08284784

GENERAL INFORMATION

APPLICANT: CLANG YANG

APPLICANT: OLSEN, DAVID R.

APPLICANT: CLARAILLO, PEDRO A.

TITLE OF INVENTION: EXPRESSION OF FUSION POLYPEPTIDES

TITLE OF INVENTION: EXPRESSION OF FUSION POLYPEPTIDES

TITLE OF INVENTION: TRANSPORTED OUT OF THE CYTOPLASM WITHOUT LEADER SEQUENCES

NUMBER OF SEQUENCES: 44

CORRESPONDENCE ADDRESS:

ADDRESSEE: MORRISON & FOERSTER

STREET: 755 Page Mill Road
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
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                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 54.8%; Score 17; DB 1; Length 4; Best Local Similarity 100.0%; Pred. No. 3e+05; Matches 3; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SIREL: 7.9 Page mill Road
CITY: Palo Alco
STATE: California
COMPRY: USA
ZIP: 94304-1018
ZOPTONE: Elopy disk
COMPUTER READABLE FORM:
MEDIUM TYPE: Flopy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patenting Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
RAPLICATION NUMBER: US/08/284,784
FILING DATE: 02-AUG.1994
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: PARK: RENDIE K,
REGISTRATION NUMBER: 35,636
REFERENCE/DOCKET NUMBER: 22095-20275.20
TELEFPAX: (415) 819-560
TELEFPAX: (415) 494-0792
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LEMGTH: 4 maino acids
LANDE: LEMEGTH: 4 maino acids
LANDE: LANDER: 10 acids
TELECOMMUNICATION INFORMATION:
                           TYPE: amino acid
STRANDEDNESS: single
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Gaps

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APPLICANT: Wanter, Andrew David
APPLICANT: Williams, Andrew David
APPLICANT: Williams, Samuel Cameron
APPLICANT: Wissim, Ahuva
APPLICANT: Nissim, Ahuva
APPLICANT: On Invention State
APPLICANT: Solit, Andrew John Hammond
TITLE OF INVENTION: Methods for producing members of specific
TITLE OF INVENTION: Dinding pairs
NUMBER OF SEQUENCES: 602
CORRESPONDENCE ADDRESS:
ADDRESSEE: David W. Clough
STREET: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: G300 Sears Tower, 233 South Wacker Drive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ..
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MEDIUM TYPE: Floppy disk

MEDIUM TYPE: Ploppy disk

COMPUTER: Ploppy disk

COMPUTER: Patentin Release #1.0, Version #1.25 (BPO)

SOFTWARE: Patentin Release #1.0, Version #1.25 (BPO)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/350,260A

CLASSIFICATION DATA:

APPLICATION NUMBER: GB 9110549.4

FILING DATE: 15-MAY-1991

PRIOR APPLICATION DATA:

APPLICATION DATA:

APPLICATION NUMBER: GB 9206318.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     54.8%; Score 17; DB 2; Le. 100.0%; Pred. No. 3e+05; vative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCATION: 1.74
; OTHER INFORMATION: /product= "Beta-turn"
US-08-685-589A-23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                8067-026-999
                                                                                    APPLICATION NUMBER: US/08/685,589A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 306, Application US/08350260A
Patent No. 5962255
GENERAL INFORMATION:
APPLICANT: Winter, Gregory Paul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRANDEDNESS: unknown
TOPOLOGY: No. 5916872 Relevant
MOLECULE TYPE: peptide
                                                                                                               FILING DATE: 24-JUL-1996
CLASAFIRCATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: COTUZZI, LAURA A.
REGISTRATION NUMBER: 30,742
REFERNCE/DOCKET NUMBER: 8067
TELEPHONE:
                                                                                                          24-JUL-1996
V: 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: 212-7.
TELEFAX: 212-7.
TELEFAX: 66141
INFORMATION FOR SEQ ID NO: 23
SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
-ver: amino acids
-ver: amino acids
-ver: amino acids
-ver: amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 100.
Matches 3; Conservative
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STATE: Illinois
COUNTRY: USA
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US-08-350-260A-306
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| Patent No. 5916872
| GENERAL INFORMATION:
| APPLICANT: Chang, Conway
| APPLICANT: Chan, Jie
| TILLE OF INVENTION: CYCLIC PEPTIDES HAVING BROAD
| TITLE OF INVENTION: SPECTRUM ANTIMICROBIAL ACTIVITY
| NUMBER OF SEQUENCES: 22
| CORRESPONDENCE ADDRESS:
| ADDRESSEE: Pennie & Edmonds LLP
| STREET: 1155 Avenue of the Americas
| CITY: New York
| CITY: New York
| COUNTRY: USA
| CITY: New York
| CITY: New York
| CITY: New York
| COUNTRY: USA
                                                                                                                                                                                 CIT1.

STATE: New COMPTRY: USA COUNTRY: USA CONTRY: USA CONTRY: 10036

COMPUTER READABLE FORM: FLORY disk COMPUTER: IBM PC COMPATIBLE COMPUTER: IBM PC COMPATIBLE CORRESTENT RELEASE #1.0, Version #1.30 SOFTWARE: 194-CUL 1996

CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/685,589A FLING DATE: 24-CUL-1996

FILING DATE: 24-CUL-1996

PRIOR APPLICATION NUMBER: US/08/685,589A FLING DATE: TATORNEY/AGENT INFORMATION: APPLICATION NUMBER: 30,742

REGISTRANCE/DOCKET NUMBER: 30,742

REGISTRANCE/DOCKET NUMBER: 30,742

REGISTRANCE/DOCKET NUMBER: 30,742

REFERENCE/DOCKET NUMBER: 30,742

REFERENCE/DOCKET NUMBER: 30,742

TELECOMMUNICATION INFORMATION: TEL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OTHER INFORMATION: /product= "Beta-turn' US-08-685-589A-14
THE SET OF THE SET OF THE PROPERTY OF THE PROP
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
LENGTH: 4 amino acids
TYPE: amino acid
STANDEDNESS: unknown
TOPOLOGY: NO. 5916872 Relevant
MOLECULE TYPE: peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity 100...
3; Conservative
                                                                       CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NAME/KEY: Peptide
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US-08-685-589A-23
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9206318.9
FILING DATE: 24-MAR-1992
PRIOR APPLICATION NUMBER: BFICK BPLICATION NUMBER: PCT/GB91/01134
FILING DATE: 10-JUL-1991
PRIOR APPLICATION NUMBER: PCT/GB92/00883
FILING DATE: 15-MAY-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB93/00605
FILING DATE: 24-MAR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/150,002
FILING DATE: 31-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/307,619
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/307,619
FILING DATE: 16-SEP-1994
ATTORNEY/AGBNT INFORMATION:
NAME: Clough, David M
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: Mitchard, Leonard C
REGISTRATION NUMBER: 29,009
REFERENCE/DOCKET NUMBER: 604-436
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)816-4000
15-MAY-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity 100.
Matches 3; Conservative
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Sequence 398, Application US/08350260A

Parent No. 5962255

GENERAL INFORMATION:
APPLICANT: Williams, Samuel Cameron
APPLICANT: Williams, Samuel Cameron
APPLICANT: Waterhouse, Peter
APPLICANT: Waterhouse, Peter
APPLICANT: South, Andrew John Hammond
TITLE OF INVENTION: Nethods for producing members of specific
TITLE OF INVENTION: Methods for producing members of specific
TITLE OF INVENTION: Methods for producing members of specific
TITLE OF INVENTION: Methods for producing members of specific
TITLE OF INVENTION: Methods for producing members of specific
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TITLE OF INVENTION: Methods for p
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Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 3; Conservative 0; Mismatches 0; Indels
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PAPLICATION DATA:
FILING DATE: 05-DEC-1994
CLASSIFICATION DATA:
APPLICATION DATA:
APPLICATION NUMBER: GB 9110549.4
                          PFILING DATE: 24 FMAK-1992

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB91/01134
FRIING DATE: 10-UL-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB92/00883
FILING DATE: 15-MAY-1992
PRIOR APPLICATION NUMBER: PCT/GB93/00605
FILING DATE: 24-MAK-1993
PRIOR APPLICATION NUMBER: PCT/GB93/00605
FILING DATE: 13-MAK-1994
PRIOR APPLICATION NUMBER: US 08/150,002
FILING DATE: 16-SEP-1994
APPLICATION NUMBER: US 08/307,619
FILING DATE: 16-SEP-1994
ATTORNEY/AGENT INFORMATION:
NAME: Clough, DAYIG
REGISTRATION NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 36,107
REFERENCE/DOCKET NUMBER: 38,107
REFERENCE/DOCKET NUMBER: 28111/32372
FELEPHONE: 312-474-6300
INFORMATION FOR SEQ 1D NO: 306:
FENDENCE APPLICATION: APPLICATION:
FENDENCE APPLICATION: APPLIC
     FILING DATE: 24-MAR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      4 amino acids
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STRANDEDNESS: single
TOPOLOGY: linear
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US-08-350-260A-306
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US-08-350-260A-398
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Gaps
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Sequence 71, Application US/09017205

Parent No. 5965357

GENERAL INFORMATION:
TITLE OF INVENTION:
TITLE OF INVENTION:
DIAGNOSIS OF HERPES SIMPLEX VIRUS TYPE 2

NUMBER OF SEQUENCES: 86

CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon & Vanderhye PC
STREET: 8th Floor, 1100 No. 5965357th Glebe Road
CITY: Arlington
STATE: Virginia
COUNTRY: USA

COMPTTER READABLE: FORM:
MEDIUM TYPE: Floppy disk
COMPTTER READABLE: FORM:
MEDIUM TYPE: Floppy disk
COMPTTER READABLE: FORM:
MEDIUM TYPE: USA

COMPTTER TENDEM TO SECONDER

COMPTTER TO SECONDER

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NAME: Clough, David W

REGISTRATION NUMBER: 36,107

REFERENCE/DOCKET NUMBER: 28111/32372

TELECOMMUNICATION INFORMATION:

TELEPHONE: 312-474-6300

INFORMATION FOR SEQ ID NO: 398:

SEQUENCE CHARACTERISTICS:

LENGTH: 4 amino acids
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TELEFAX: (703)816-4100

| INFORMATION FOR SEQ ID NO: 71:
| SEQUENCE CHARACTERISTICS:
| LENGTH: 4 amino acids
| TYPE: amino aci
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Search completed: April 15, 2004, 10:42:05 Job time: 23 secs

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